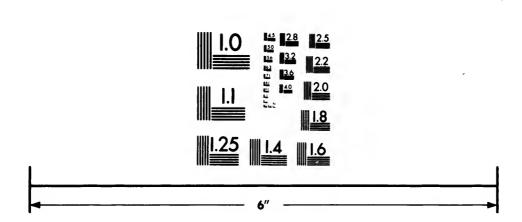


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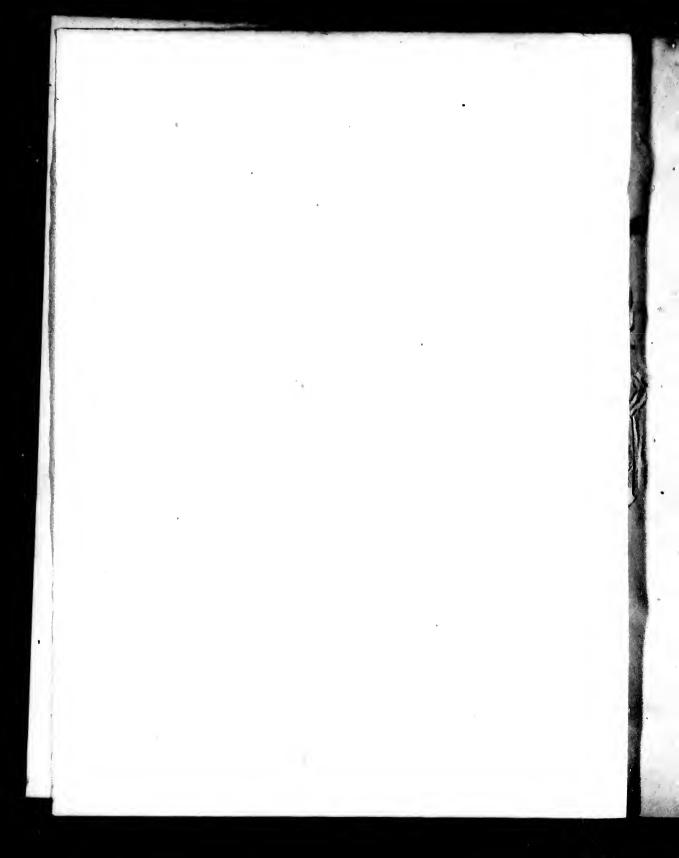
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VOYAGES AND TRAVELS.

TRAVELS IN FRANCE.

A JOURNEY TO PARIS IN THE YEAR 1698.

BY DR. MARTIN LISTER.

DEDICATION.

TO His Excellency, John Lord Somers, Baron of Evenham, Lord High Chancellor of England, and one of the Lords-Justices of England.

My LORD,

W ISDOM is the foundation of justice and equity, and it seems not to be perfect, without it comprehends also philosophy and natural learning, and whatever is of good relish in arts. It is certain, my Lord, for the honour of your high station, that the greatest philosopher of this age, was one of your predecessors; nor is your Lordship in any thing behind him; as though nothing inspired people with more equity than a true value for useful learning and arts. This hath given me the boldness to offer your lordship this short account, of the magnificent and noble city of Paris, and the court of that great king, who hath given Europe so long and vehement disquiet, and cost England in particular so much blood and treasure. It is possible, my lord, you may find a leisure hour to read over these sew papers for your diversion, wherein promise myself, you will meet with nothing offensive, but clean matter of fact, and some thort notes of an unprejudiced observer. But that I may no longer importune you, perpetually bussed in so laborious and useful an employment, I beg leave to subscribe myself,

Your Lordship's most humble and most obedient fervant,
MARTIN LISTER.

A JOURNEY TO PARIS, &c.

Introduction to the Reader.

THIS tract was written chiefly to fatisfy my own curiofity, and to delight myfelf with the memory of what I had feen. I busied myfelf in a place where I had little to do, but to walk up and down; well knowing, that the character of a stranger gave me free admittance to men and things. The French nation value themselves upon civility, and build and dress mostly for figure: this humour makes the curiosity

of strangers very easy and welcome to them.

But why do you trouble us with a journey to Paris, a place fo well known to every body here? For very good reason, to spare the often telling my tale at my return. But we know already all you can fay, or can read it in the Present State of France, and Description of Paris; two books to be had in every shop in London. It is right, so you may; and I advise you not to neglect them, if you have a mind to judge well of the grandeur of the court of France, and the immense greatness of the city of Paris. These were spectacles I did indeed put on, but I found they did not sit my sight, I had a mind to see without them; and in matters of this nature, as vast cities and vast pa-

laces. I did not care much to use microscopes or magnifying glasses.

But to content you, reader, I promife you not to trouble you with ceremonies either of thate or church, or politics; for I entered willingly into neither of them, but only, where they would make a part of the conversation, or my walk was ordered me. You will easily find by my observations, that I incline rather to nature than dominion; and that I took more pleasure to see Monsieur Breman in his white waistcoat digging in the royal physic garden, and sowing his couches, than Monsieur de Saintot making room for an ambassador; and I found myself better disposed, and more apt to learn, the names and physiognomy of a hundred plants, than of five or fix princes. After all, I had much rather have walked a hundred paces under the meanest hedge in Languedoc, than any the finest alley at Versailles or St. Cloud, so much I prefer fair nature and a warm sun, before the most exquisite performances of art in a cold and barren climate.

Another reason, that I give you little or no trouble in telling you court matters, is, that I was no more concerned in the embassy, than in the sailing of the ship which carried me over: it is enough for me, with the rest of the people of England, to seel the good effects of it, and pass away this life in peace and quietness. It is a happy turn for us, when kings are made friends again. This was the end of this embassy, and I hope it will last our days. My lord ambassador was infinitely caressed by the king, his ministers, and all the princes. It is certain the French are the most polite nation in the world, and can praise and court with a better air than the rest of mankind. However the generality of the kingdom were through great necessity well disposed to receive the peace: the bigots and some disbanded officers might be heard at our first going to grumble, but those also gave over, and we heard no more of them when we came away. But to the business.

I happily arrived at Paris after a tedious journey in very bad weather; for we fet out of London the tenth of December, and I did not reach Paris till the first of January; for I fell sick upon the road, and staid sive days at Bologne, behind the company, till

my fever abated; yet notwithstanding so rude a journey, I recovered, and was perfectly cured of my cough in ten days; which was the chiefest reason of my leaving London at that time of the year, and never had the least return of it all the winter, though it was as sierce there as I ever felt it in England. This great benefit of the French air I had experienced three several times before, and had therefore longed for a passage many years; but the continuance of the war was an insuperable obstacle to my defires. Therefore the first opportunity which offered itself I readily embraced, which was my Lord Portland's acceptance of my attendance of him in his extraordinary embassy; who ordered me to go before with one of my good friends, who was sent to prepare matters against his arrival.

Now that I might not wholly trust my memory, in what I saw at Paris, I set down my

thoughts under certain heads.

I. Of Paris in General.

THOUGH I had much spare time the fix months I staid in that city, yet the rudeness of the winter season kept me in for some time. Again, I believe I did not see the tithe of what deferves to be seen, and well considered; because for many things I wanted a relish, particularly for painting and building; however I viewed the city in all its parts, and made the round of it; took feveral prospects of it at a distance, when well thought on, I must needs confess it to be one of the most beautiful and magnificent in Europe, and in which a traveller might find novelties enough for fix months for daily entertainment, at least in and about this noble city. To give therefore a strict and general idea of it, and not to enter far into the vain disputes of the number of inhabitants, or its bigness, compared to London; sure I am, the standing croud was fo great, when my lord ambassad or made his entry, that our people were ftartled at it, and were ready the next day to give up the question, had they not well confidered the great curiofity of the Parifians, who are much more delighted in fine shows than the people of London, and so were well near all got into the way of the cavalcade. One thing was an evident argument of this humour, that there were fome hundreds of coaches of persons of the best quality, even some bishops and lords which I faw, who had placed themselves in a file to line the streets, and had had the patience to have so remained for some hours.

It is also almost certain, that for the quantity of ground possessed by the common people, this city is much more populous than any part of London; here are from four to sive and to ten menages, or distinct families in many houses; but this is only to be understood of certain places of trade. This difference betwixt the two cities also is true, that here the palaces and convents have eat up the people's dwellings, and crouded them excessively together, and possessed themselves of far the greatest part of the ground; whereas in London the contrary may be observed, that the people have destroyed the palaces, and placed themselves upon the soundations of them, and forced the nobility to live in squares or streets in a fort of community: but this they have

done very honestly, having fairly purchased them.

The views also which it gives upon the river arc admirable: that of the Pont-neuf downwards to the Tuilleries, or upwards from the Pont-Royal; and in some other places, as from Pont St. Bernard, the Greeve, &c. The river Seine which passes through the midst of the city, is all nobly banked or keyed with large free-stone; and incloses in the heart of the city two islands, which causes many sine bridges to be built to pass over them. One of these islands called l'Isle de Palais was all Paris for some ages

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The houses are built of hewn stone intirely, or whited over with plaister: some indeed in the beginning of this age are of brick with free-stone, as the Place-Royal, Place-Dauphin, &c. but that is wholly left off now; and the white plaister is in some tew places only coloured after the fashion of brick, as part of the abbay of St. Germain. The houses every where are high and stately; the churches numerous, but not very big; the towers and steeples are but sew in proportion to the churches, yet that noble way of steeple, the domes or cupolas, have a marvellous effect in prospect; though they are not many, as that of Val de Grace, des Invalides, College Mazarin, de l'Assumption, the Grand Jesuits, la Sorbonne, and some sew others.

All the houses of persons of distinction are built with porte-cocheres, that is, wide gates to drive in a coach, and consequently have courts within; and mostly remises to set them up. There are reckoned above 700 of these great gates; and very many

of these are after the most noble patterns of ancient architecture.

The lower windows of all houses are grated with strong bars of iron; which must be

a vast expence.

As the houses are magnificent without, so the finishing withinside and furniture answer in riches and neatures; as hangings of rich tapestry, raised with gold and filver threads, crimson damask and velvet beds or of gold and filver tissue. Cabinets and bureaus of ivory inlaid with tortoiseshell, and gold and filver plates in a 100 different manners; branches and candlesticks of crystal; but above all most rare pictures.

The gildings, carvings and paintings of the roofs are admirable.

These things are in this city and the country about, to such a variety and excess, that you can come into no private house of any man of substance, but you see something of them; and they are observed frequently to ruin themselves in these expenses. Every one, that has any thing to spare, covets to have some good picture or sculpture of the best artist; the like in the ornaments of their Gardens, so that it is incredible what pleasure that vast quantity of sine things give the curious stranger. Here as soon as ever a man gets any thing by fortune or inheritance, he lays it out in some such way as now named.

Yet, after all, many utenfils and conveniencies of life are wanting here, which we in England have. This makes me remember what Monsieur Justell, a Parisian formerly, told me here, that he had made a catalogue of near threescore things of this

nature which they wanted in Paris.

The pavements of the streets is all of square stone, of about eight or ten inches thick; that is, as deep in the ground as they are broad at top; the gutters shallow, and laid round without edges, which makes the coaches glide easily over them.

However, it must needs be said, the streets are very narrow, and the passengers a-foot no ways secured from the hurry and danger of coaches, which always passing the streets with an air of haste, and a full trot upon broad stat stones, betwixt high and large resounding houses, makes a fort of music which should seem very agreeable to the Parisians.

The royal palaces are furprifingly stately; as the Louvre and Tuilleries, Palais Luxembourg, Palais Royal.

The convents are great, and numerous, and well built; as Val de Grace, St. Germains, St. Victor, St. Genevieve, the Grand Jefuits, &c.

The squares are sew in Paris, but very beautiful; as the Place Royal, Place Victor, Place Dauphine, none of the largest, except the Places Vendosme, not yet finished.

The gardens within the walls, open to the public, are vafily great, and very beautiful; as the Tuilleries, Palais Royal, Luxembourg, the Royal Physic Garden, of the

arfenal, and many belonging to convents, the Carthusians, Celestins, St. Victor, St. Genevieve, &c.

But that which makes the dwelling in this city very diverting for people of quality, is the facility of going out with their coaches into the fields on every fide; it lying round, and the avenues to it fo well paved; and the places of airing fo clean, open, or shady, as you please, or the season of the year and time of the day require: as the Cour de la Reyne, Bois de Bologne, Bois de Vincennes, les Sables de Vaugerarde. &c.

But to descend to a more particular review of this great city, I think it not amiss to fpeak first of the streets and public places, and what may be seen in them; next of the houses of note; and what curiofities of nature or art, also of men and libraries, I met with: next of their diet and recreations; next of the gardens, and their furnitue and ornaments; and of the air and health. We shall conclude the whole with the present

state of physic and pharmacy here. To begin with the coaches, which are very numerous here and very fine in gilding: but there are but few, and those only of the great nobility, which are large, and have two feats or funds. But what they want in the largeness, beauty, and neatness of ours in London, they have infinitely in the easiness of carriage, and the ready turning in the narrowest streets. For this purpose, they are all crane-necked, and the wheels before very low; not above two feet and a half diameter; which makes them eafy to get into, and brings down the coach box low, that you have a much better prospect out of the foremost glass, our high seated coachmen being ever in the point of view. Again, they are most, even fiacres or hackneys, hung with double iprings at the four corners, which infensibly breaks all jolts. This I never was so sensible of, as after having practifed the Paris coaches for four months, I once rid in the easiest chariet of my lord's, which came from England; but not a jolt but what affected a man: fo as to be tired more in one hour in that, than in fix in thefe.

Besides the great number of coaches of the gentry, here are also coaches de Remise, by the month, which are very well gilt, neat harness, and good horses: and these all strangers hire by the day or month, at about three crowns English a day. 'Tis this fort that spoils the hackneys and chairs, which here are the most nasty and miserable voiture that can be; and yet near as dear again as in London, and but very few of them neither.

Yet there is one more in this city, which I was willing to omit, as thinking it at first fight scandalous, and a very jest; it being a wretched business in so magnificent a city; and that is the Vinegrette, a coach on two wheels, dragged by a man, and pushed behind by a woman or boy, or both.

Besides those, for quick travelling there are great number of post-chaises for a single person: and Roullions for two persons; these are on two wheels only, and have each their double springs to make them very easy; they run very swiftly; both the horses pull; but one only is in the thilles. The coach-man mounts the Roullion; but for the chaife, he only mounts the fide horfe. I think neither of thefe are in use in England; but might be introduced to good purpofe.

As for their recreations and walks, there are no people more fond of coming together to see and to be seen. This conversation without doubt takes up a great part of their time: and for this purpose, the Cour de la Reyne is frequented by all people of quality. It is a treble walk of trees of a great length, near the river fide, the middle

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walk having above double the breadth to the two fide ones; and will hold eight files of coaches, and in the middle a great open circle to turn, with fine gates at both ends. Those that would have better and freer air, go further, and drive into the Bois de Bologne, others out of other parts of the town to Bois de Vincennes, scarce any fide mills. In like manner these persons light and walk in the Tuilleries, Luxembourg, and other gardens, belonging to the crown and princes, (all which are very spacious) and are made convenient, with many seats for the entertainment of all people; the

lacquies and mob excepted. But of this more hereafter.

No fort of people make a better figure in the town than the bishops, who have very splendid equipages, and variety of sine liveries, being most of them men of great families, and preferred as such, learning not being so necessary a qualification for those dignities as with us; though there are some of them very deserving and learned men. I say, they are nost noblemen, or the younger some of the best families. This indeed is for the honour of the church; but whether it be for the good of learning and piety is doubtful. They may be patrons, but there are but sew examples of crudition among them. They may be wished that they exceeded others in merit, as they do in birth.

The abbots here are numerous from all parts of the kingdom. They make a confiderable figure, as being a gentile fort of clergy, and the most learned; at least were to from the time of cardinal Richelicu, who preferred men of the greatest learning and parts to these posts; and that very frankly, and without their knowing it before-hand, much less soliciting him for it. He took a sure way, peculiar to himself, to enquire out privately men of desert, and took his own time to prefer them. This silled the kingdom of France with learned men, and gave great encouragement to study; where-

of France has yet fome feeling.

'Tis pretty to observe,' how the king disciplines this great city, by small instances of obedience. He caused them to take down all their figns at once, and not to advance them above a foot or two from the wall, nor to exceed such a small measure of square; which was readily done: so that the signs obscure not the streets at all, and make little or no sigure, as though there were none; being placed very high and

There are great number of hostels in Paris, by which word is meant public inns, where lodgings are let; and also the noblemen and gentlemen's houses are so called, mostly with titles over the gate in letters of gold on a black marble. This seems as it were, to denote that they came at first to Paris as strangers only, and inned publicly; but at length built them inns or houses of their own. It is certain, a great and wealthy city cannot be without people of quality; nor such a court as that of France without the daily inspection of what such people do. But whether the country can spare them or not, I question. The people of England seem to have less manners and less religion, where the gentry have lest them wholly to themselves; and the taxes are raised with more difficulty, inequality, and injustice, than when the landlords live upon the definations.

It may very well be, that Paris is in a manner a new city within this forty years. It is certain fince this king came to the crown, it is fo much altered for the better, that it is quite another thing; and if it be true what the workmen told me, that a common house, built of rough stone and plaistered over, would not last above twenty-five years, the greatest part of the city has been lately rebuilt. In this age certainly most of the great hostels are built, or re-edified; in like manner the convents, the bridges

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In the river amongst the bridges, both above and below, are a vast number of boats, of wood, hay, charcoal, corn, and wine, and other commodities. But when a sudden thaw comes, they are often in danger of being split and crushed to pieces upon the bridges; which also are sometimes damaged by them. There have been great losses to

the owners of fuch boats and goods.

It has been proposed to dig near the city a large basin for a winter harbour; but this has not had the face of prosit to the government; so they are still less to execute their own project. There are no laws or projects so effectual here, as what bring prosit to the government. Farming is admirably well understood

Amongst the living objects to be seen in the streets of Paris, the counsellors and chief officers of the courts of justice make a great figure; they and their wives have their trains carried up; so there are abundance to be seen walking about the streets in this manner. It is for this that places of that nature sell so well. A man that has a right to qualify a wife with this honour, shall command a fortune; and the carrying a great velvet cushion to church is such another business. The place of a lawyer is valued a third part dearer for this.

Here are also daily to be feen in the streets great variety of monks, in strange unusual habits to us Englishmen; these make an odd figure, and furnish well a picture. I cannot but pity the mistaken zeal of these poor men; that put themselves into religion, as they call it, and renounce the world, and submit themselves to most severe rules of living and diet; some of the orders are decently enough cloathed, as the Jesuits, the sathers of the oratory, &c. but most are very particular and obsolete in their dress, as being the rustic habit of old times, without linen, or ornaments of the present

As to their meagre diet, it is much against nature, and the improved diet of mankind. The Mofaic law provided much better for Jews, a chofen people; that was inflituted for cleanliness and health. Now for the Christian law, though it commands humility and patience under fufferings, and mortification and abstinence from sinful lufts and pleasures; yet by no means a distinct food, but liberty to eat any thing whatfoever, much less nattiness; and the papitts themselves in other things are of this mind; for their churches are clean, pompoufly adorned and perfumed. It is enough, if we chance to fuffer perfecution, to endure it with patience, and all the miferable circumflances that attend it; but wantonly to perfecute ourfelves, is to do violence to Christianity, and to put ourselves in a worse state than the Jews were; for to choose the worst of food, which is four herbs and fish, and fuch like trall, and to lie worse, always rough, in course and nasty woollen frocks upon boards; to go barefoot in a cold country, to deny themselves the comforts of this life, and the conversation of men; this, I fay, is to hazard our healths, to renounce the greatest blessings of this life, and in a manner to destroy ourselves. These men, I say, cannot but be in the main chagrin, and therefore as they are out of humour with the world, so they must in time be weary of fuch flavish and fruitless devotion, which is not attended with an active

The great multitude of poor wretches in all parts of this city is such, that a man in a coach, a-soot, in the shop, is not able to do any business for the numbers and importunities of beggars; and to hear their miseries is very lamentable; and if you

give to one, you immediately bring a whole fwarm upon you. Thefe, I fay, are true monks, if you will, of God Almighty's making, offering you their prayers for a farthing, that find the evil of the day fufficient for the day, and that the miferies of this life are not to be courted, or made a mock of. Thefe worship, much against their will, all rich men, and make faints of the rest of mankind for a morfel of bread.

But let these men alone with their mistaken zeal; it is certainly God's good providence which orders all things in this world. And the slesshesters will ever defend themselves, if not beat the Lenten men; good and wholesome food, and plenty of it, gives men naturally great courage. Again, a nation will sooner be peopled by the free marriage of all forts of people, than by the additional stealth of a few starved monks, supposing them at any time to break their vow. This limiting of marriage to a certain people only is a deduction and an abatement of mankind, not less in a papist country than a constant war. Again, this lessens also the number of God's worshippers, instead of multiplying them as the stars in the simmament, or the sand upon the sea shore; these men wilfully cut off their posterity, and reduce God's congregation for the suture.

There is very little noise in this city of public cries of things to be fold, or any disturbance from pamphlets and hawkers. One thing I wondered at, that I heard of nothing lost, nor any public advertisement, till I was shewed printed papers upon the corners of streets, wherein were in great letters, Un, Deux, Cinq, Dix jusq; a Cinquante Louis à a gagner, that is, from one to fifty louis to be got; and then underneath an account of what was lost. This sture is a good and quiet way; for by this means without noise you often find your goods again; every body that has found them repairing in a day or two to such places. The Gazettes come out but once a week,

and but few people buy them.

It is difficult and dangerous to vend a libel here. While we were in town, a certain person gave a bundle of them to a blind man, a beggar of the hospital of the Quinzevint, telling him he might get five pence for every penny; he went to Nostredame, and cried them up in the service time; La vie & Miracles de l'Evesq; de Rheims. This was a trick that was played the archbishop, as it was thought, by the Jesuits, with whom he has had a great contest about Molinas, the Spanish J. doctrines. The libel went off at any rate, when the sirst buyers had read the title further, and found

they were against the present archbishop, duke, and first peer of France.

The fireets are lighted alike all the winter long, as well when the moon fhines, as at other times of the month; which I remember the rather, because of the impertinent usage of our people at London, to take away the lights for half of the month, as though the moon was certain to shine and light the fireets, and that there could be no cloudy weather in winter. The lanthorns here hang down in the very middle of all the ftreets, about twenty paces distance, and twenty foot high. They are made of a square of glass about two foot deep, covered with a broad plate of iron; and the rope that lets them down, is secured and locked up in an iron sunnel and little trunk fastened into the wall of the house. These lanthorns have candles of four in the pound in them, which last burning till after midnight.

As to these lights, if any man break them, he is forthwith sent to the gallies; and there were three young gentlemen of good families, who were in prison for having done it in a frolic, and could not be released thence in some months, and that not without

the diligent application of good friends at court.

The lights at Paris for five months in the year only, cost near 50,000l. sterling. This way of lighting the streets is in use also in some other cities in France. The king is said to have raised a large tax by it. In the presace to the tax it is said, "that considering the great danger his subjects were in, in walking the streets in the dark, from thieves, and the breaking their necks by falls, he for such a sum of money did grant this privilege, that they might hang out lanthorns in this manner."

I have faid, that the avenues to the city, and all the streets, are paved with a very hard fand stone, about eight inches square; so they have a great care to keep them clean; in winter, for example, upon the melting of the ice, by a heavy drag with a horse, which makes a quick riddance and cleaning the gutters; so that in a day's time

all parts of the town are to admiration clean and neat again to walk on.

I could heartily with their fummer cleanlines was as great; it is certainly as necessary to keep so populous a city sweet; but I know no machine sufficient, but what would empty it of the people too; all the threats and inscriptions upon walls are to little purpose. The dust in London in summer is oftentimes, if a wind blow, very trouble-some, if not intolerable; in Paris there is much less of it, and the reason is, the flat stones require little sand to set them fast, whereas our small pebbles, not coming together, require a vast quantity to lay them fast in paving.

But from the people in the streets, to the dead ornaments there. There are an infinite number of busto's of the grand monarch every where put up by the common people; but the noble statues are but few, considering the obsequious humour and capacity

of the people to perform.

That in the Place-Victoire is a foot in brafs, all over gilt, with Victoire, that is a valt winged woman close behind his back, holding forth a laurel crown over the king's head, with one foot upon a globe. There are great exceptions taken at the gilding by artifts; and indeed the shining feems to spoil the features, and give I know not what confusion; it had better have been all of gold braffed over; which would have given its true lights and shadows. and suffered the eye to judge of the proportions. But that which I like not in this, is the great woman perpetually at the kings back; which is a fort of embarras, and inflead of giving victory, seems to tire him with her company. The Roman victory was a little puppit in the emperor's hand, which he could dispose of at pleasure. This woman is enough to give a man a surfeit.

The other are statues or three of the last kings of France, in brass a horseback.

That on the Pont-neuf is of Henry the fourth in his armour bare-headed, and habited as the mode of that time was.

The other of Lewis the thirteenth in the Palace-Royal, armed also after the mode of

the age, and his plume of feathers on his head-piece.

The third is of this present King Louis the fourteenth, and designed for the Place Vendosme. This Colosius of brass is yet in the very place, where it was cast; it is surprisingly great, being 22 feet high, the feet of the king 26 inches in length, and all the proportions of him and the horse suitable. There was 100,000 pound weight of metal melted, but it took not up above 80,000 pounds; it was all cast at once, horse and man. Monsieur Girardon told me, he wrought diligently, and with almost daily application at the model eight years, and there were two years more spent in the moulding, and surnaces, and casting of it. The king is in the habit of a Roman emperor, without stirrups or saddle, and on his head a French large periwig a-la-mode. Whence this great liberty of sculpture arises, I am much to seek.

It is true, that in building precifely to follow the ancient manner and fimplicity is very commendable, because all those orders were founded upon good principles in mathematics:

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and done ties: but the cloathing of an emperor was no more than the weak fancy of the cople. For Louis le Grand to be thus dreffed up at the head of his army now a days and be very comical. What need other emblems, when truth may be had; as the gen the prefent age need be ashamed of their modes, or that the Statua Equestris of Henry the fourth or Louis the thirteenth were the less to be valued for being done in the true dress of their times. It feems to me to be the effect of millaken flattery; but if regarded only as a piece of mere art, it is methinks very unbecoming, and has no graceful air with it.

I remember I was at the levee of King Charles the fecond, when three models were brought him to choose one of, in order to make his statue for the court at Windsor; he chofe the Roman emperor's drefs, and caused it also to be executed in that other erected for him in the old Exchange in London. The like is of King James in Whitehall, and at Chelfea college, our invalids. Now I appeal to all mankind, whether in reprefenting a living prince now-a-days these naked arms and legs are decent, and whether there is not a barbarity very displeasing in it. The father of these two Kings, Charles the first, was the prince of this age of the best relish, and of a sound judgment, particularly in painting, fculpture, architecture by fea and land, witness the vast sums of money he beflowed upon Rubens and his disciple Vandyke. Also the great esteem he had for the incomparable Inigo Jones, who was the first Englishman in this age that understood building. I heard M. Auzout fay, when he had viewed the banquetting-house at Whitehall, that it was preferable to all the buildings on this fide the Alps; and I ought to believe him, he having studied Vitruvius more than 40 years together, and much upon the place at Rome. Also the ship the Sovereign, which was truly the noblest floating castle that ever swam the sea. Yet after all this, that King had a Statua Equestris of himself erected, now at Charing-cross, cast in the full habit of his own time, and which I think may compare with the best of that fort at Paris.

I should beg leave in the next place to visit the palaces and men of letters and conversation: but I must take notice first of the vast expences that are here in iron balustrades, as in the Place-Royal, which square is compassed about with one of ten feet high. Of this fort and better there are infinite every where in Paris; which gives indeed a full

view of the beauty of their gardens and courts.

First, therefore, I saw the Palais Mazarin, in which are many good pictures, but the low gallery is furnished with a great collection of ancient Greek and Roman statues, and is what I most took notice of. They were most brought from Rome by the Cardi-Those which are togatæ and cloathed, are as they were found; but such as were made nudæ or naked, are miferably difguifed by the fond humour of the Duke de Mazarin, who in a hot fit of devotion caused them to be castrated and mangled, and then frocked them by a fad hand with I know not what plaifter of Paris, which makes them very ridiculous. Cicero fomewhere tells us, that fome of the ancient wife men thought there was nothing naturally obscene, but that every thing might be called by its own name; but our Celius is of another mind, and begs pardon, being a Roman, that he wrote of those things in his own tongue. It is certain upon our subject, the Duke should not have furnished his cabinet and gallery with naked pictures, but with the togatæ only; or if it had once pleafed him to do otherwife, he should not have cloathed them; which was at best but a vain oftentation of his chastity, and betrayed his ignorance and diflike of good things; that is, spoils and hides the noble art of the sculpture, for which only they are valuable.

But why should nudity be so offensive, since a very great part of the world yet desies cloaths, and ever did so; and the parts they do most affect to cover, is from a certain necessity only.

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It is plain by these and many other elegant statues I saw at Verlailles, most of which were taken out hence, that the Roman cloathing was the most simple thing imaginable, and that a Roman was as soon undressed, as I can put off my gloves and shoes. The men and women went dressed much alike. As for the fashion of the Roman habit, it is evident by these ancient statues, (which Oct. Ferrarius has well and reasonably followed in explicating the several garments of the ancients) that the tunica or shirt was without a collar or sleeves, and girt high up under the breasts; also, that the toga or gown was a wide and long garment open at both ends, and let down over the head, and supported by the self hand thrust under the skirts of it, whilst the top of it rested upon the less shoulder. The right hand and arm was naked, and above the gown, so that the gown was ungirt and always loose. Now for the purpose, when a Roman made himself naked for a bath, (as he daily did just before eating) he had nothing to do but draw up his less hand, and the gown fell down at his feet; and at the same time to loose the girdle of the tunica, and to draw up both his arms from under the tunica, and that also fell at his feet.

In the first ages of the commonwealth they were a toga or gown only, afterwards they put on next the skin a tunica or shirt, and never added more in the very splendour and luxury of the empire; all other matters of cloathing, of whatever nature soever, have been invented since.

I much admired, that in the great number of ancient statues to be seen in and about Paris, I could never meet any one but what was cloathed with a toga pura, and no representation of a bullated one.

This toga and tunica both were made of fine white wool or flannel: they had not a rag of linen about them. This flannel, I fay, was very fine; for their folds are fmall, and it falls into them eafily; and feems to be very light, by the handling of it, to raife it by the finger and thumb only, as is the air of some of the statues, and the whole garment to be suspended by the left shoulder. Upon the least straining of it, the breasts and nipples are visible through it; also the proportions of the thighs.

This wearing all woollen in a hot country brought on the use and necessity of frequent bathing: otherwise they could never have kept themselves sweet and clean; and the necessity of bathing kept them to this fort of loose garment; and much bathing brought in oils, and oils persumes insused in them.

But in my mind a fair linen shirt every day is as great a preservative to neatness and cleanness of the skin and health, as daily bathing was to the Romans. It is certain, had they not used either simple oils of olives, sometimes unripe and old, for the astringency, and sometimes ripe and persumed, the warm water must have much decayed nature, and made the skin intolerable tender and wrinkled. The naked indians and blacks secure their skins by oils at this day from all the injuries of the weather, both from heat and cold.

But the best rule of health and long life is to do little to ourselves. People are not aware what inconveniences they bring upon themselves by custom, how they will plead for things long used, and make that pleasant, which is very destructive to their healths; as in the case of cloathing, tobacco, strong waters, steel remedies, the drinking mineral waters, bathing, tea, cossee, chocolate, &c.

One little statue I took more particular notice of, for the elegance of the sculpture, and the humour of the dress; it slood upon a table; it was the figure of a sybil. The face of the old woman was cut very deep into the stone, within the quoifure, like a hood pulled over the forehead, a very emblem of an oracle, which is hid, dark, and ambiguous,

as the woman herfelf, who would have neither her face feen, nor her faying eafily underflood—that is, she is as it were, assumed of her cheat.

What was the fancy of the men of the first ages to make old women prophetess, to utter oracles, and to interpret the will of the gods by the eating of animals; to make them Sagæ and Venesicæ is reasonable enough; for old age makes all people spiteful, but more the weaker sex. To posson and bewitch are the secret revenges of impotent people.

The Jews were impatient of the company of women in their religious rites, left they fhould contaminate and spoil all their devotion. The Romans on the contrary thought religion became women better than men, for besides the general parts they had in common with the men in adoration of their gods, they had also peculiar ones, where the men were not concerned. Tully bids his wife supplicate the gods for him; for he tells her, he thought they would be kinder to her than him. Upon some such principle, probably, their prophetesses were in esteem.

I saw the apartment of Monsieur Viviers in the arsenal; it consists in seven or eight ground rooms looking into the great garden; these rooms are small, but most curiously furnished, and have in them the greatest variety and best forted china ware I ever saw, besides Pagods and China pictures: also elegant and rich bureaus, book-cases, and some

paintings of the best masters.

That which pleafed me most, amongst the paintings, were the pieces of Rembrants,

that incomparable Dutch painter.

A girl with a cage in one hand, and looking up after the bird that had got out, and was flying away over her head: fhe had fright, amazement, and forrow, in her looks. The other is an unlucky lad leaning upon a table, and looking with mischief in his eyes, or that he watched to do some unhappy turn. The third is a young gentleman in a fur cap, en dishabille, after his wonted manner. The two first are the most natural thoughts and dress that can be; but nothing certainly ever came near his colouring for flesh and garments. This part he studied passionately all his life, and was ever trying experiments about it; and with what success, these and many other pieces shew.

These three pictures of Rembrant are all of young people, and are sinished with all the art and perfection of colouring, as smooth as any limning; which makes the judgment of Philibien of him appear not just: for he sitted his paint according to the age and nature of the subjects he wrought. I had the pleasure of seeing them again and

again

Monsieur le Nostre's cabinet, or rooms, wherein he keeps his fine things, the controller of the king's gardens, at the side of the Tuilleries, was worth seeing. He is a very ingenious old gentleman, and the ordinance and design of most of the royal and great gardens in and about Paris are of his invention, and he has lived to see them in perfection. This gentleman is 89 years old and quick and lively. He entertained me very civilly. There were in the three apartments, into which it is divided, (the uppermost of which is an octagon room with a doine) a great collection of choice pictures, porcellans, some of which were jars of a most extraordinary size: some old Roman heads and buttos, and intire statues; a great collection of stamps very richly bound up in books; but he had lately made a draught of his best pictures to the value of 50,000 crowns, and had presented them to the king at Versailles. There was not any thing of natural history in all his cabinet.

I was feveral times with him, and once he carried me into an upper closet, where he had a great collection of medals in four cabinets, most modern; amongst them there

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re he there were were four large drawers, three of which were the medals of King William, near 3co as he told me. The fourth drawer was of King William's anceftors and family; he had been forty years in making this collection, and had purchased many of them at vast rates. He has certainly the best furniture for an Historia Metallica, that I ever saw. The French king has a particular kindness for him, and has greatly enriched him, and no man talks with more freedom to him; he is much delighted with his humour, and will fit to see his medals, and when he comes at any medal, that makes against him, he will say, Sire, voyla une, qu' est bien contre nous! as though the matter pleased him, and he was glad to find it to shew it to the king. Monsieur le Nostre spoke much of the good humour of his master; he affirmed to me he was never seen in passion, and gave me many instances of occasions, that would have caused most men to have raged; which yet he put by with all the temper imaginable.

In this cabinet I faw many very rare old china veffels, and among them a fmall Roman glass urn, very thick made, and ponderous, of a blue fea colour; the two ears were feet divided into four claws, but the very bottom of this veffel was smooth, and very little umblicate; and for this reason I cannot tell whether it might not be cast, and

The Palace of Luxembourg is the most finished of all the royal buildings; it is very magnificent, well designed, were it not for the trifling intersections or round and deep jointings of the columns, which looks like a cheesemonger's shop, and which is below the grandeur of the orders; so hard a matter it is to have a true relish of the ancient simplicity, and not to add impertinent ornaments. And to say the truth, there are not many things in Paris where this chastity is strictly preserved; among those, where little is to be blamed, are the south east front of the Louvre, the facade of St. Gervais, and the whole building of Val de Grace. And this wantonness in additional ornaments may perhaps be one reason, why the Doric is more practised there at this day, the modillions naturally admitting greater variety, and according to the intended use of the building

In this palace is that famous gallery, where the history of Maria of Medicis is painted by Rubens. Though this was done 70 years ago, it is as fresh as at the first; so great a master he was in colouring. His flesh is admirable, and his scarlet, for which, if he had not a fecret, not now understood, he had less avarice, and more honour, than most of our modern painters. It is certain the goodness of colours was one of the great cares and studies of the late famous painters; and that which seems most to have obliged them to it, was the necessity they put themselves upon, to paint all their own designs, and more particularly the prefent dreffes. And though Rubens in his hiftory is too much a libertine in this respect, yet there is in this very place, which we now describe. much truth in the habit of his principal figures, as of King Henry the fourth, the queen, her fon, the three daughters and the cardinal; though indeed the allegoric affiliants in all the tableaux are very airy and fancifully fet out. His scholar St. Ant. Vandyke did introduce this novelty too much in England, where the perfons would bear it; as the female fex were very willing to do, who feem in his time to have been mighty fond of being painted in dishabille. It was this that cut out of business the best English painter of his time, Cornelius Johnson, and shortened his life by gricf. It is certain with a little patience all drefs becomes dishabille; but I appeal, whether it is not better and much more pleafing to fee the old fashion of a dead friend, or relation, or of a man of distinction, painted as he was, than a forpish night-gown, and odd quoifure, which never belonged to the person painted.

But that which led me into this reflection was, that the modern painters have thereby an opportunity to be idle and to have others to work under them; it is fufficient to finish the face, and to fend it out to be dressed at the block; whereas were they obliged in honour to paint the whole dresses, this would make them accurate in colouring, through the great variety which would daily occur, and that noble art be in far greater esteem.

A good artist might easily reduce it, and command the purses of those he paints, to pay well for his labour and time, for it is the lot but of very few men to excel in this

noble art.

In the anti-chamber of the queen's apartment there are other paintings of Rubens, as, in three diffinct tableaux, at the upper end of the room the ceremonies of the marriages of her three daughters, to Savoy, Spain, and England. Also in another historical tableau, on the side of the same room, he has painted his own picture, in a very free and easy posture, next the eye, up in the very corner, looking out, as unconcerned in his own tableau, upon the three ladies. He has done his wife in some of the tableau, in the great gallery; but in the last, where the queen is mounting up to Heaven, she is drawn up after her; but whether it be her full and heavy body, or her mind, she is painted in a very unwilling posture, bending back. It seems her husband liked her company too well to part with her easily, or she with him.

Several of the rooms of this apartment were wainfcoted with cedar, wrought in flowers, as her dreffing-room and oratory; which is rare in Paris. The floors were made of small pieces of wood put together in figures; the inward knots were inlaid with threads of filver, which have a marvellous effect; but the firmness, duration, and intireness of these floors, after so long laying, I most admired: whereas with us in London, and elsewhere in Paris, they prove so noisy to tread on, and faulty, that they are

in a few years intolerable.

It is pity the king has so great an aversion to the Louvre, which if sinished, (which he might easily do in two or three years) would be the most magnificent palace, perhaps, that ever was upon the face of the earth; and, indeed, except that be done. Paris will

never arrive at its full beauty.

There are two stones in the fronton of the south east facade of the Louvre, which are shewed to all strangers, covering the very top of it, as slates do, and meet in an angle. These are very big, viz. 54 feet long a piece, eight feet broad, and but 14 inches thick. The raising so high these two vast and tender stones was looked upon as a master-piece of art, equalling any thing of the ancients of that nature. They were taken out of the quarries of Meudon, where monsieur the dauphin dwells.

I faw in the galleries of the Louvre fome of the battles of Alexander by Le Brun; which are by the French the most admired pieces of painting, that have been (fay they) done by any man on this side the Alps; and of which they are not a little proud.

Also a large piece of Paulo Verenese, presented by the Senate of Venice to the king. I cannot pass by unmentioned the vast number of great cases in one of the galleries, wherein are the play things or puppets of the dauphin, when a child: they represent a

camp in all its parts, and cost 50,000 crowns.

But, indeed, that which most surprised me in the Louvre was the Attellier or workhouse of monsieur Gerradon; he that made Cardinal Richelieu's tomb, and the Statua Equestris designed for the Place de Vendosme; he told me he had been almost ten years in making the model and moulding and other things as I said before, with assiduity and daily application.

He hath in the Louvre also two rooms, in one of which are many ancient marble statues, and in the other are brais statues and Vafa, and a hundred other things relating to antiquity. There is nothing in Paris deserves more to be seen.

In this last, I saw a fort of Egyptian Janus, with Silenus on one side, and a Bacchus on the other: with many other Egyptian figures well defigned; all of them with a hole in

the crown of the head.

Also a lion of Egypt very large of brass; but the design rude, and more like an Indian Pagod. This also had a large square hole in the back, near the neck. The Siamites, that came in an embaffy to Paris, were well pleafed to fee this figure, and faid it was not unlike one of theirs; and that that hole ferved to put the incense in, that the smoak might come out of the body and nostrils of the lion. I doubt not but that also was the use of the open crowns of the rest of the Egyptian figures, which I had seen elsewhere, as well as here; and their heads ferved for perfuming pots for themselves: and hence also might arife, that other ornament of radiated heads; in imitation of a bright flame kindled within, and casting rays out of and round the head.

There was also a small image of a lean man, cast bent, in a sitting posture, with a roll of parchinent fpread open upon his knees, and he looking down upon it, reading it. This was of folid brass, the head and all: this was found inclosed in a mummy. He feemed to have a thin linen garment on, perhaps fuch as the Egyptian priests used to

Also he shewed us the mummy of a woman intire. The scent of the hand was to me not unpleafant; but I could not liken it to any perfume now in use with us; though I make no question, but naptha was the great ingredient; which indeed is so unusual a fmell, that the mineral waters of Hogsden near London, (wherein the true naptha is fubstantially, and of which I have some ounces by me, gathered off those waters) have imposed upon the ignorant in natural history; who would make them come from a chance turpentine effusion, or the miscarriage of a chymical experiment.

Here were also great variety of urns and funeral vasa of all materials and fashions. Also an antient writing pen coiled up, with two ends erected both alike, representing

the head of a fnake.

The antient heads and bustos in brass are numerous and of great value. This gentleman is exceeding courteous to all strangers; especially to such, as have the least good relish of things of this nature, to whom he shews them gladly. It cannot be otherwise, that a man educated in that noble art of sculpture, who shall daily study so great a variety of originals of the best masters, but must far excel the rest of mankind, who practice without good example, and by fancy mostly.

I was to fee Monfieur Baudelot, whose friendship I-highly value: I received great civilities from him. He is well known by his books about the utility of voyages: he has a very choice and large collection of books of Greek and Roman learning. I made him feveral vifits, and had the pleafure of perufing his cabinet of coins, and small images of copper, which are many and of good value: as Egyptian, Phrygian, Grecian,

and Roman.

Amongst his Egyptian, the most curious was a Deus Crepitus of admirable workmanship, with a radiated crown: it was an Ethiopian, and therefore bespoke its great antiquity; for they very usually represented their kings under the figures of their gods.

There was also the skeleton of a woman of solid copper, found in the body of a mummy, in a fitting posture; not unlike that other mentioned above in Monsieur Gi-

rardon's closet.

An Apis or a heifer in copper.

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A Phry-

A Phrygian Priapus of elegant workmanship: the Phrygian Cap pointed and hanging down behind, as our caps in dishabille are now worn.

Of all which, and many more, this learned antiquary intends to write.

In his cabinet of medals I could not find one of Palmyra, for which I carefully enquired; for I was willing to add what could be found in France upon this fubject.

He has also many marbles from Greece; most of which have been published by Spon; fave one, and that is the most antient and most curious of all; concerning which he is ready to publish a differtation. It is a catalogue in three columns, of the names of the principal persons of Erectheis, one of the chiefest tribes of Attica, that were killed in one and the same year in five several places, where the Athenians sought under two generals, as in Gyprus, in Egypt, in Phænicia, in Egina, in Halies. Here are 177 names in the three columns.

The Mantis closes the column, who died in Egypt, that is, the physician. Magic and physic went together in those days: nay, the very comedians and poets, those necessary men of wit, fought; for none were exempt from being inrolled that were born

in the kingdom or republic of Attica.

The antiquity of this marble, befides the known history and names which justify the time of those men: the figure of the letters are an undoubted argument; for there are no double letters here; no n, no w, but all graved with e, o; also the letters, L, P, II, R, s, are very Roman. So that it is also an evidence, that the Romans borrowed their letters

from the antient Greek alphabet.

The invention and borrowing of letters was a great happiness to mankind. The embarras in which writing is in China, is owing to the misfortune of wanting an alphabet; so that the Chinese are forced to express every sentence and thought by a different character, which has multiplied their writing to 120,000 characters; of which yet they have less need, than we in Europe, who perform all with 24 letters, (whereof five add life to the other 19, saith Hippocrates, which is an argument of the age he wrote in: the knowledge of grammar, i.e. reading and writing, depends upon seven sigures, de Dieta. 1.) The Chinese know much less than we; they have no other morals, they have less philosophy, less mathematics, sewer arts, and yet much narrower knowledge of natural history, because they can have the knowledge only of that part of nature which they have at home: in what therefore should they employ this multitude of characters; It is, I say, their misfortune not to have thought of an alphabet: their common language is as easily learnt, and consequently might as easily be writ as any in Europe.

But to return to Monsieur Budclot's stores. In this cabinet I also saw some basse-relieves; one of Praxiteles well designed; one of Musos the comedian; amongst the rest of the marbles there is a basse-relief, very extant, and finely sinished, of a cupid assep, leaning his head upon his left arm; in his hand he holds two poppy heads. It is probable the poppies were emblematic from the power they have in love-affairs. Indeed nost poisons affect those parts chiefly, being the great suce of the habit of the body, or circle of the blood; and no people use poppy more, and stand more in need of it, than the men who delight in polygamy, the Mahometans, or understand it better; as Olea-

rius testisies.

He had an antic bufto of Zenobia in marble, with a thick radiated crown; of which he very obligingly gave me a copy, well defigned from the original: this was brought out of Afia by Monfieur Thevenot.

He shewed me a differtation he had written out fair for the press, about a certain ancient Intaglia of Madames, of Ptolomeus Auletes, or the player upon the flute: In

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in ane : In this this the thin musler is the most remarkable thing, which covers the mouth and nose. This head is engraved upon an amethyst.

I enjoyed this gentleman's company very often; and had much discourse with him about his books of the utility of voyages; and in one conversation took the freedom to diffent from him about the interpretation of that coin in Monsieur Seguin, which he calls Britannick.

Monsieur Boudelot reads it thus, Jovi Victori Saturnali Io! or Jovi Victoria Sat. Io! I had rather read it thus, Io! Sat. Victoria Io! upon the occasion of his returning with the soldiers, filling their head-pieces with the shells they had gathered off the sea-shore; and the little use of his new invented letter the digamma, which he instituted or borrowed from the Æolique to express V consonant.

The shells were a triumph much like this small addition to the alphabet; which lasted no longer than his time: that is victory enough: (for so stupid a prince as Claudius) let us return with the spoils of the ocean, and adorn his new invented letter with a palm branch: the reverse of this coin being a laurel-crown: both the signs of victory.

About the Boustrophedon way of writing, mentioned by Suidas and Pausanias, or turning again as the ox ploughs, or the racers about the meta in the cirque, in my opinion it could be nothing else, but the serpentine manner of writing found in Swedeland in sunique letters.

He shewed me also a stone taken lately out of the body of a horse at Paris, which was his death; and dying strangely, they dissected him, that is, certain ignorant people; in the lower part of the body, (probably the bladder) was sound this stone: it weighs, as I guess, two pound; it is as round as a cannon ball; it is laminated like an onion; for the first couche was broke up in some places, of a dark hair colorur, and transparent; or like some cloudy agats which I have seen: it was very ponderous. Such like transparent stones I had a patient voided often in Yorkshire. I saw another transparent one, which was cut out of the buttock of an alderman at Doncaster; he was twice cut in the same place, at some years' distance. Another I had in some measure transparent, voided by a patient, which was of the very colour of a cossee berry when burnt; but of this horse stone Monsieur Boudelot wrote me a letter before I lest Paris, which I design to publish.

I was by invitation from Monsieur Cassini at the Observatoire Royal, built on a rising ground just without the city walls. This building is very fine, and great art is used in the vaulted cut roofs and winding staircases. The stones are laid inside, outside, with the most regularity I ever saw in any modern building. In all this building there is neither iron nor wood, but all sirmly covered with stone, vault upon vault. The platform a-top is very spacious, and gives a large and fair view of all t'aris, and the country about it; it is paved with black slint in sinall squares, which I make no doubt are set in coment or tarras, that is, the l'ulvis Puteolanus.

We were shewed a room well furnished with models of all forts of machines; and a very large burning glass, about three feet diameter, which at that time of the year, viz. in the beginning of February, did fire wood into a slame, in the very moment it came into and passed through the focus.

I was indifposed, and so could not accept of the favour which was offered me of seeing the moon in their telescopes; and to go down into the vault, which was contrived for seeing the stars at noon-tide, but without success. I was told by Monsieur Roman afterwards, that he saw there a rock formed in the cave by the dropping of a spring of petrifying water; of which nature are all the wells in Paris.

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In the floor of one of the octagon towers they have defigned with great accurateness and neatness with ink an universal map in a vast circle. The north pole is in the centre. This is a correction of other maps upon the latest and best observations.

His nephew Monfieur Moraldi was with him; as for his only fon, he was in London at that time: I afterwards was with him at his father's, a very hopeful young gentleman, and well instructed by his father in the mathematics, and all other useful learning.

The triumphal arch out of the gate of St. Antoine is well worth feeing; for in this the French pretend not only to have imitated the ancients, but to have out-done them. They have indeed, used the greatest blocks of stone that could be got, and have said them without mortar, and the least side outward, after the manner of the ancients; but I am afraid their materials are very short of the Roman, and their stone is ill chose, though vastly great.

Indeed the defign is most magnificent; it is finished in plaister, that is, the model of

it, in its full beauty and proportions.

I suppose it was intended for a gate of entrance into the city: for it fronts the great street of the suburbs, and has a vast walk planted with trees leading from it towards Bois de Vincennes.

There is nothing more built but the four parts of the foundation of the true building, raifed only to the feet of the pedellals; the foundation is laid twenty-two feet deep.

Amongst the vast blocks of stone, which take up a great compass before the building, I found several forts, all brought from the quarries not far from Paris; all of them are of a kind of coarse grit, which will not burn into lime. They distinguish these stones into sour sorts; 1. Pierre d'arcueil, for the first two or three couches or lays above the soundation. This is the best, and hardest of all. 2. That of St. Clou, which is good, and the next best. I did not find by the blocks designed either for the walls of the building; or the rounds of the pillars; that the beds of stone of St. Clou are above two seet thick. 3. That of St. Lieu; this is but indifferent, but yet much better than that stone, which is taken up out of the stone pits in and about Paris, which makes the sourch fort of stone. If it be wrought up into walls, as it is taken out of the pits, it is very apt to be slawed by the frost: but if it be laid in the air, and kept under cover for two years, then it becomes dry and not re durable.

I saw but one piece in Paris of the ruins of an old Roman building; it was in La Rue de la Harpe. The vaults are very high and large. The manner of building is near the same I formerly caused exactly to be figured and described at York, and which is published in the Philosophic Transactions: that is, the inside and outside of the walls are composed of fix rows of small square stones, and then four rows of slat, thin and broad Roman bricks, and so alternatively from the top to the bottom. Which makes it probable it was built after Severus's time: for this was the African manner of building, as Vitruvius tells us; and therefore might well be, what tradition here says of it,

viz. part of Julian the emperor's palace or thermæ.

St. Innocent's church-yard, the public burying-place of the city of Paris for a 1000 years, when intire (as I once faw it) and built round with double galleries full of skulls and hones, was an awful and venerable sight: but now I found it in ruins, and the greatest of the galleries pulled down, and a row of houses built in their room, and the bones removed I know not whither: the rest of the church-yard in the most neglected and nastiest pickle I ever saw any confectated place. It is all one, when men, even the Roman catholics have a mind, or it is their interest, to unhallow things or places, they can do it with a good stomach; and leave the tombs of chancellors and other great

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men without company or care. What nobody gets by, nobody is concerned to repair: but it is firange amongft fo many millions of dead men, not one wonder-working faint should start up to preserve itself and neighbours from contempt and scandal. That so much holy earth, brought, as it is said, so far off, should never produce one faint, but rather spew up all its inhabitants, to be thus shuffled and dissipated.

Amongst the many cabinets of Paris there is nothing finer than the collection of Monsieur Buco, Garde Rolles du Parlement. You pass through a long gallery, the one side of which is a well furnished library, and also well disposed in wired cases. This gallery leads into two rooms very finely adorned with pictures, Vasa's, statues and figures in brass, also with china, and the samous enamnel vessels, formerly made in Poicu, which are not now to be had; a thousand other curious things.

I very particularly examined his large quantity of shells, consisting in near fixty drawers. There were indeed very many of a fort, and but sew but what I had seen before, and figured. He very obligingly lent me those I had not seen, to have the designs of them done. He had many very perfect and large ones of land and fresh-water buccina; but yet a great number were wanting of those very tribes which I have published in my Synopsis Conchyliorum.

Here were also two or three very fair ones of that fort of comprest snail, which have their tail on the same side with their mouth; and the vulgar name, by which those men of cabinets distinguish them, is not amis, viz. des lampes.

He shewed me a bivalve, which is not uncommon (a large blood red spondille) for which the late duke of Orleans gave 900 livres, which is above 501 sterling; and he also assured that the same person offered a Parisan for thirty-two shells 11000 livres. Which sum was resused; but the duke replied, that he knew not who was the greater sool, he that bid the price, or the man that resused it.

I also saw in this collection an hippocampus about four inches long, the tail square thick bellied and breast like a miller thumb, winged not unlike a fort of slying sish, but the fins were spoiled; the membranes being tore from the bones of the wings, the head long and square like the tail, with a fort of tusted nussel. This sish I took to be of the Hippocampus kind; and (as he told me) it was given him by my Lady Portsmouth, possibly out of King Charles's collection, who had many curious presents made him; (as one of the shells from the States of Holland, many of which I have feen in other hands but he suffered them all to be dissipated and lost.

Here also was a Vespetum Canadense of a most elegant figure, and admirable contrivance; of which I have a drawing. This is intire in all its parts; it is as big as a middle-fized melon, pear-fashion, with an edge running round, where it is thickest, from which edge it suddenly declines and lessens into a point; at the very end of the point, on one side, is a little hole, with pulvinated or smooth edges inclined inward; otherwise it is whole, and wrought upon the twig of a tree, of a very smooth satin-like skin.

Also the striated skin of an African ass, supple and well cured, which I had never feen before. It is certainly a most beautiful animal; and, I admire, after so many ages that it has been known to the people of Europe, it could never be tamed, and made of common use, as the rest of the horse kind. This was only of two colours, viz. broad lists of white and bay or chesinut colour drawn from the back down the sides to the belly, which was all white: the lists were parted at the back by a very narrow ridge of short hair; which lists also went round the legs like garters. The hair coloured stripes of the African ass were, near the back, three or four singers broad, also the list down the back was very broad.

Another skin of a cap-ass I afterwards saw at Dr. Tournesort's; and the stripes were the same, but much broader and darker coloured; it may be from the different ages. This sort of striping seems to be peculiar to the ass; for the most common to be seen with us have all a black list down the back; and two more, that is, on each side one, running down the shoulders.

. I saw Monsieur Tournesort's collaction of shells, which are well chosen, and not above one or two of a fort; but very perfect and beautiful, and in good order, con-

fifting of about 20 drawers.

There was amongst them a very large land shell, the same which I have figured from the museum at Oxford, having its turn from the right hand to the left. Also many very excellent and large patterns of other land snails; also a fresh-water mussel from Brasil, which I had never seen before; a pair of them he gave me; and many species of fresh-water buccina from the Carribee islands. Also an auris marina spisse echinata; which was new to me.

Among the shells the thin oyster, which shines within like mother of pearl, and has in the uppermost end of the slat valve, near the hinge, a hole. These he brought with him, and took them up alive from the rocks in Spain; he said they were very offensively bitter to the taste. These being perfect, I had the opportunity of seeing that hole shut with a peculiar and third shell, of the sathion of a pouch or shepherd's

purfe.

I shall say nothing of his vast collection of seeds and fruits, and dried plants which alone amount to 8000, and in this he equals, if not excels, all the most curious herbariss in Europe. His herbarisations about Paris he gave me to carry for England, just then printed off; also he shewed me the designs of about 100 European non de-

fcript plants, in 8vo. which he intends next to publish.

He also shewed me ten or twelve single sheets of vellom, on each of which were painted in water colours very lively, one single plant, mostly in flower, by the best artist in Paris, at the king's charge. Those are sent to Versailles, when the doctor has put the names to them, and there kept: in this manner the king has above 2000 rare plants, and they work daily upon others. The limner has two louis's for every plant

he paints.

I saw there also the Vespetum Canadense Maximum, about 12 inches long, and six in diameter; of a pear sashion; it hangs by a long and broad loop to the twig of a tree: the broad or lower end is a little pointed, and rising in the middle; the outward skin is as smooth as vellum, and of a whitish grey, next to the pearl colour. The button at the bigger end in this being broken, and the outward skin pilled off, I could see a hole of about half an inch diameter in the very middle, into which the wasps go in and out. The cells are sexangular, but of a very small size, not much bigger than a duck quill, or very small goose quill; and consequently appear very thick set and numerous.

He shewed me also a very great julus from Brasil, at least fix inches long, and two about, round like a cord and insorth and thating, of a kind of copper or brazen colour: the feet infinite, like a double fringe on each side: this he had from F. Plumier, who afterwards gave me a design of it drawn by the life, and in its proper colours.

Dr. Tournefort shewed me a present which was made him by his countryman of Provence, Monsieur Boyeur d'Aguilles, of a large book in solio in curious stamps. This is only the first part of his cabinet, all graved at the author's charge; and he is said to be another Peiresk, which would be happy for mankind, and a great honour to that country to have produced two Mæcenass in one age.

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and two razen co-Plumier, colours. ryman of s stamps. and he is I was to fee Monsieur Verney at his apartment at the upper end of the royal physic garden; but missing my visit, went up with a young gentlemen of my lord ambassador's retinue, to see Mr. Bennis, who was in the dissecting room, working by himself upon a dead body, with its breast open and belly gutted: there were very odd things to be seen in the room. My companion, it being morning, and his senses very quick as a vigorous, was strangely surprised and offended; and retired down the stairs much falter than he came up. And indeed, a private anatomy room is to one not accustomed to this kind of manufacture, very irksome, if not frightful; here a basket of diffecting instruments, as knives, saws, &c. And there a form with a thigh and leg stayed, and the muscles parted assumer: on another form an arm served after the same manner. Here a tray stell of bits of sess, for the more minute discovery of the veins and nerves; and every where such discouraging objects. So, as if reason and the good of mankind did not put men upon this study, it could not be endured: for instinct and nature most certainly abhors the suployment.

I faw Monsieur Merrie, a most painful and accurate anatomist, and free and communicative person, at his house Rue de la Princesse. His cabinet consisted of two chambers: in the outward were great veriety of skeletons; also entire preparations of the nerves; in two of which he shewed me the mistake of Willis, and from thence gathered, that he was not much used to diffect with his own hand. The pia mater coating the spinal nerves but half way down the tack where it ends: the dura mater coating the lowermost twenty pair. Which, Willis, (as he said) has otherwise re-

ported.

But that which much delighted my curio, was the demonstration of a blown and dried heart of a foctus; also the heart of a sife.

In the heart of a fœtus, he shewed it que open, and he would have it that there was no valve to the foramen ovale; which seemed equally open from the lest ventricle to the right, as the contrary: that its seemed equally open from the lest ventricle to the right, as the contrary: that its seemed equally open from the lest ventricle to the right, as the contrary: that its seemed equally open from the lest ventricle to the right, as the contrary: that its seemed equally open from the lest ventricle to the ramifications of the pulmonic artery, all r it has parted with the canal of communication, which goes betwixt the pulmonic artery, and the lower or descending branch of the aorta) both put together, far exceed, if not double, the diameter of the aorta itself.

He therefore, not without good reason, affirme, that of all the blood which the vena cava pours into the right ventricle of the heart, and is thence in a setus forced up into the pulmonic artery, a great part is carried by the caral of communication into the descending trunk of the aorta, and is so circulated about the body, the lungs (as to that part) being wholly slighted: also that of the two remaining thirds of the blood, which is carried about the lungs, when it comes down the pulmonic vein, that which cannot be received by the aorta, (and all cannot, because the aorta is much less than the two branches of the pulmonic artery put together) is therefore discharged back through the foramen ovale into the right ventricle of the heart, and so thrown up again with the rest of the blood, coming from the vena-cava. So that one part of the two remaining parts of the blood is daily carried about the body, as in an adult fectus, and a third part only circulates in the lungs, passing by the body or grand circulation.

That all this is done to abbreviate and reduce the circulation to a leffer compais, is certain; and so for the same reason and end, that other letter circulation of the liver is slighted by the blood, which returns from the placenta; by a canal of communica-

tion betwixt the porta and the vena cava.

The reason he gives of this, I cannot at all allow of, as being very ill grounded;

and therefore I shall not trouble myself to confute, or so much as name it.

As for the heart of the land tortoife, it was preserved in spirit of wine, and all the three ventricles thereof slit and opened; so that I had not all the satisfaction I could have wished: but the left ventricle in this animal had no artery belonging to it, but did receive only the blood, which descended from the lungs, and convey it by the foramen ovale into the right ventricle: that the third or middle ventricle was only an appendix to the right, and had the pulmonic artery issuing from it. So that the blood in a tortoise was in a manner circulated like that in a feetus, through the body, the lungs as it were or in good part slighted.

This thought of Monsieur Merrie's has made a great breach betwixt Monsieur Verney and himself; for which reason I had not that freedom of conversation as I could have wished with both of them; but it is to be hoped there may come good

from an honest emulation.

Two English gentlemen came to visit me, Mr. Bennis and Mr. Probie. They were lodged near the royal garden, where Monsieur Verney dwells, and makes his anatomies, who in three months time shewed all the parts of the body to them. He had for this purpose at least twenty human bodies, from the gallows, the chatelet, (where those are exposed who are found murdered in the streets, which is a very common business at Paris) and from the hospitals.

They told me, Monsieur Verney pretended to shew them a valve, which did hinder blood from falling back into the right ventricle by the foramen ovale. This valve they said he compared to the papillæ in the kidneys, musculous and sleshy: that if wind was blown into the vena pulmonalis, it did not pass through the foramen ovale, but stop there, by reason of the valve: that he did believe contrary to Mr. Merrie, that

no blood did circulate through the lungs in an embrio.

Again, in another conversation with Monsieur Merrie, he shewed me the blown heart of an embrio, and that of a girl of seven years old. I saw clearly, that the skin of the supposed valve of the foramen ovale, was as it were suspended with two ligaments: and that in the girl's, the two sides of the foramen ovale were drawn one over the other, and so closed the hole; but were easily to be separated again by a bristle thrust betwixt them.

Also it seemed to me, that this membrane in an embrio might cover the foramen ovale, like the membrane nictans in a bird's eye, that is, be drawn over it, and so hinder the ingress of the blood from the vena cava, as often as the right auricle beats: but the dilating itself might give way to the descending blood of the vena pulmonalis; and possibly, the embrio living as it were the life of an insect, can by this artistice

command the heart.

I remember in discourse that day with him, he told me, that Monsieur Verney had an old cat, and a young kithing just born, put into the air-pump before the Academie Royalle de Sciences: that the cat died after fixteen pumps, but the kithing survived five hundred pumps; which favours in some measure the command young animals have of their hearts.

At another visit Monsieur Merrie obligingly procured for me the heart of a human embrio, with the lungs intire. He tried before me the experiment upon blowing, and also fyringing water into the aorta, both which filled the auricles and ventricles, and freely came out at the vena cava only. Then he opened the right auricle and ventricle, where the foramen ovale was open only at one corner, not the tenth part

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human owing, tricles, cle and th part of its breadth; and a membrane drawn over the reft, which membrane was fastened to the sides quite round. Then he opened in the same manner the left ventricle and auricle, and there it was evident, that that membrane which closed the hole, had two narrow straps or muscles by which it was fastened to the opposite sides, after the manner of some of the valves of the heart.

I told him that it must follow from this, that the foramen ovale was shut and opened more or less, at the pleasure of the embryo, according to the necessities of nature, and the quantity of blood that was to pass: that it was probable, that all insects had a command of their hearts (of which I had given large instances elsewhere), by some such passage, which they could shut altogether, or in great part, as they had a mind, in winter, in fear, or salting for want of food: that the shutting up of the passage in adult animals was therefore done in an instant, by drawing the curtain fully, which could never be again drawn back and opened, because of the great torrent of blood, which now entered the right auricle, and stopped it in that posture, which in time would altogether stiffen and lose its motion of relaxation. As a hen, when she sleeps, draws over the membrana nictans; and likewise when she dies, the same membrane covers all the eye.

Mr. Bennis procured me the heart of a human fœtus, which had but just breathed; the which I examined with Monsieur Litre of Castres in Languedoc, another very understanding and dextrous anatomist, and who teaches scholars of all nations the practice of anatomy. The experiments here were repeated as formerly described; both wind and water passed the foramen ovale, both from the vena pulmonum, and from the aorta. That which I observed in this heart more particularly, was, that the membrane or valve on the left fide of the foramen ovale was flat, and extended almost over the hole, without any limbus round its edges, because it was nothing but the very substance of the auricula similtra continued, or a process thereof; but on the right fide the vena cava being joined to the auricle, it had a rifing edge round that part of it, whence it proceeded; that is, that the two faces had contrary openings, and being drawn as it were one over the other, they shut the hole; but not so firmly, but the hole might be more or less open all a man's life. For those two oval processes sticking close together in a blown and dried heart, that is not to be much heeded: for I have feen them dry with the hole open; but it has been like as betwixt unglued paper, or as the urethers descend betwixt the skins of the bladder, or as the same happens to the ductus bilaris in its infertion into the-

The same person brought me the heart of a man forty years old, in which the foramen ovale was as much open as in a sætus new born; and the ligaments very confpicuous, which tack the sides of the valve to the auricle, and go over to the other side of the border.

I was not better pleased with any visit I made, than with that of F. Plumier, whom I found in his cell in the convent of the Minimes. He came home in the fieur Ponti's squadron, and brought with him several books in solio, of designs and paintings of plants, birds, fishes, and insects of the West Indies; all done by himself very accurately. He is a very understanding man in several parts of natural history, but especially in Botanique. He had been formerly in America, at his return printed at the king's charge a book of American plants in solio. This book was so well approved of, that he was sent again thither at the king's charge, and returned after several years wandering

about the islands with this cargo. He was more than once shipwrecked, and lost his specimens of all things, but preserved his papers, as having fortunately lodged them in other vessels; so that the things themselves I did not see. He had designed and dissected a crocodile; one of the sea tortoises; a viper, and well described the dissections.

His birds also were well understood, and very well painted in their proper colours. I took notice of three forts of owls, one with horns, all distinct species from our European. Several of the hawk kind and falcons of very beautiful plumage; and one of those, which was coal black as a raven. Also (which I longed to see) there was one species of the swallow kind, very distinct from the four species we have in Europe.

Amongst the fish there were two new species of American trouts, well known by the

fleshy fin near the tail.

Amought the infects there was a scolopendra of a foot and an half long, and proportionably broad; also the julus very elegantly painted, which I had seen before in Dr. Tournefort's collection.

Also a very large wood-frog, with the extremity of the toes webbed.

Also a blood-red polypus, with very long legs, two of which I could discern by the draught were thick acetabulated. This, he told me, was so venemous, that upon the least touch, it would cause an insupportable burning pain, which would last several hours.

There were also some few species of the serpent and lizard kind.

There were but few shells; but amongst them there was a murex, which dies purple, with the fish as it exerts itself in the sea. Also that land buccinum, which lays eggs with hard shells, and for bigness, and shape, and colour, scarce to be distinguished from the sparrow eggs. And because the murex and this buccinum was drawn with the animals creeping out, I desired a copy of them, which he freely and in a most obliging manner granted me. He designed the buccinum terrestre in the island of St. Domingo, where he found it.

Amongst the vast collection of plants, I observed the torch kind and ferns were of all others the most numerous; of each of which there were an incredible number of species. There were two or three species of gooseberries and currants; and some species.

cies of wild grapes; all which F. Plumier told me were good to cat.

He told me these drawings would make ten books, as big as those he had published; and two books of animals. He had been often at Versailles to get them into the king's Imprimerie, but as yet unsuccessfully; but hoped ere long to begin the printing of them. Note, that the booksellers at Paris are very unwilling, or not able, to print natural history; but all is done at the king's charge, and in his presses.

I vifited Monfieur Dacier and his lady, two very obliging persons, and both of great

worth, and very learned.

I think our profession is much beholden to him, for his late elegant translation of Hippocrates into French, with learned notes upon him. I wish he may live to finish what he hath so happily begun. I read over the two volumes he has printed with

great delight.

He seems to savour the opinion of those who think, the circulation of the blood was known to him; in which he errs undoubtedly. It is manifest his anatomy was rude, dark, and of little extent; but it is also as manifest, that he knew very well the effect of the circulation. As for example, 2 de Diæta. c. 12. "All the body, (says he) is

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lood was vas rude, he effect ays he) is purged purged by refpiration and transpiration, and what humour thickens, is subtilized and thrown out by the skin, and is called sweat."

Again 3. de Diæta. c. 5. speaking of a fort of foul and impure bodies, he says; "More is by labour melted out of the slesh, than the circular motion (of the blood) hath purged off. There are a great number of instances of this nature." In conversation I put this to him, which he avowed was all he thought.

He told me he had two more volumes ready for the press, and did intend not to give it over till he had gone through all the works of Hippocrates. In which volumes will be these treatises: Of Dreams: of Regimen in acute Diseases: the Prognosticks: the Prorrhetiques: the Aphorisms: the Coaques.

On that aphorism he seemed to me to have a very happy thought, colla non, sed cruda purganda sunt; which makes it of the same sense with that other, si quid movendum est, move in principio.

I must needs say this for Madame Dacier, his wise, though I knew her by her writings before I saw her, the most learned woman in Europe, and the true daughter and disciple of Tanaquil Faber; yet her great learning did not alter her genteel air in conversation, or in the least appear in her discourse, which was easy, modest, and nothing affected.

I visited Monsieur Morin, one of the Academie de Sciences, a man very curious in minerals; of which he shewed me some from Siam, as jaspers, onyxes, agates, Loadstones, &c. He shewed me also excellent tin ore from Alface. Also from France, a great block of a sort of amethyst, of two or three hundred weight. Some parts of it, (for he had several plates sawed and polished,) were very fine, and had large spots and veins of a deep coloured violet. It was designed for a pavement in marchetterie, of which he shewed me a Carton drawn in the natural colours.

This puts me in mind of a vast amethyst I had seen at London, brought from New Spain, and exposed to sale; it weighed, as I remember, eleven pound odd ounces; and was most perfectly sigured both point and sides, after the manner of a Bristol diamond, or common rock chrystal; but this block here was rude, and without any shape.

I cannot fay much of the meeting of these gentlemen of the Acad. Royal de Sciences, there are but sew of them, about twelve or sixteen members; all pensioned by the king in some manner or other.

They endeavoured in the war time to have printed Monthly Transactions or Memoirs after the manner of ours in London; but could not carry them on above two volumes or years, for without great correspondence this can hardly be done. And ours is certainly one of the best registers that ever was thought on, to preserve a vast number of scattered observations in natural history, which otherwise would run the hazard to be lost, besides the account of learning in printed books.

I heard Mr. Oldenburgh fay, who began this noble register, that he held correspondence with seventy odd persons in all parts of the world, and those be sure with others: I asked him, what method he used to answer so great variety of subjects, and such a quantity of letters as he must receive weekly; for I knew he never failed, because I had the honour of his correspondence for ten or twelve years. He told me he made one letter answer another, and that to be always fresh, he never read a letter before he had pen, ink, and paper ready to answer it forthwith, so that the multitude of his letters cloyed him not, or ever lay upon his hands.

The Monthly Register, or Philosophic Transactions, is one of the best copies which hath been printed in this age; it is now fold for 131, sterling, and not many remaining

to be had of them neither.

The abbot Bignon is prefident; nephew to Monsieur Pontchartrain. I was informed by some of them, that they have this great advantage to encourage them in the pursuit of natural philosophy, that if any of the members shall give in a bill of charges of any experiment which he shall have made, or shall defire the impression of any book, and bring in the charges of engraving required for such book, the president allowing it and signing it, the money is forthwith reimbursed by the king. As it was done in Dr. Turnefort's Elements de Botanique, the cuts of that book cost the king 12000 livres. And the cuts intended, and now engraving for another book of new plants found in his voyages into Portugal and Spain, will cost 1001. sterling.

Also, if Monsieur Merrie for example, shall require live tortoises for the making good the experiments about the heart, they shall be brought him, as many as he pleases, at

the king's charge.

These, besides their pensions, I say, were some of the advantages they have enjoyed;

but the war, for this reason, has lain heavy upon the philosophers too.

Mr. Butterfield is a right hearty honelt Englishman, who has resided in France thirty-five years; is a very excellent artist in making all sorts of mathematical instruments, and works for the king and all the princes of the blood, and his work is sought after by all the nations of Europe and Asia.

He more than once shewed me (which is his great diversion) a mighty collection of

loadstones, to the value of several hundred pounds sterling.

Some he had as hard almost as steel, and others fost and friable; yet of these he had those which were of as great virtue as any of the hard; that of the equally hard there

were very great difference.

He had one which weighed naked not above a drachm, and would naked take up a drachm and an half; but shod would take up 144 drachms of iron, if rightly applied, that is, if the iron to be taken up did firmly and in a plain touch alike both the feet.

The best shod were these that follow:

1. A flate loadstone, which I noted not so much for its strength, but because of its peculiar make, being fairly and distinctly laminous throughout, weighing one ounce and an half, draws up one pound.

2. A fmooth loadstone, weighing one drachm, two scruples, fourteen grains, draws

up eighteen ounces, that is, eighty two times its weight.

3. Another smooth loadstone, weighing fixty-five grains, draws up fourteen ounces, that is, one hundred and forty-four times its weight.

It is furprizing to fee a loadstone no bigger than a hazel nut, take up a huge bunch

of keys.

We have a very large flate loadstone in the repository at Gresham college, at least fix inches over; this also is but weak: whether the laminæ do spoil the virtue, as though they were so many distinct stones packed together. And yet a loadstone which takes up, ex. gr. 6 pound weight, cut by the axis in two halves, and both halves shod again, will take up eight pound.

It is plain, that experiments are better made with a terrella, or fpherical load-flone, than a fquare one; and his way of capping the terrella is very well contrived.

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A square loadstone made into a terrella, will near take up as much weight as it did before, though a great deal of the stone is lost in the rounding, by virtue of the difterent shocing.

He entertained us full two hours with experiments neatly contrived about the effects

of the loadstone.

The experiment of approaching a loadstone to the spring of a watch is very fine; it causes the balance to move very swift, and brought yet nearer, to stop quite and cease

Another experiment was an inch broad plate of iron, turned into a ring of about four inches diameter, which had evidently two north and two fouth poles, which he faid he had feen in a loadstone, and had contrived this in imitation of nature. The working of them with filings of steel, drigged upon a plate, fet upon the ring, did clearly manifest the double polarity.

Also the suspending of a needle in the air, and a ball of seel upon the point of it, by a thread, which a weight kept down, that it could not ascend higher than such a

distance within the sphere of the activity of the loadstone.

Again, the free working of the needle in water, through brass, gold, stone, wood, or any thing but iron. He told us, he had a stone, which would work through a

stone wall of eighteen inches.

Lastly, he demonstrated by many experiments, how the effluvia of the loadstone work in a circle, that is, what flows from the north pole comes round, and enters the south pole; on the contrary, what flows from the fouth pole, enters the north, and in its way puts in order all such filings of steel it meets with; that is, according to the disposition of its own whirling, and the circular lines it keeps in its slying about the loadstone. Indeed, it is pleasant to see, how the steel filings are disposed; and in their arrangement, one clearly sees a perfect image of the road, which the whirling invisible matter takes in coming forth, and re-entering the poles of the loadstone.

He shewed us a loadstone sawed off that piece of the iron bar, which held the stones together at the very top of the steeple of Chartres. This was a thick crust of rust, part of which was turned into a strong loadstone, and had all the properties of a stone dug out of the mine. Monsieur de la Hire has printed a memoir of it; also Monsieur de Vallemont a treatise. The very outward rust had no magnetic virtue, but the inward had a strong one, as to take up a third part more than its weight unshod. This iron

had the very grain of a folid magnet, and the brittleness of a stone.

These gentlemen, who have writ of this, have in my opinion missed their purpose, when they enquire, how it comes to pass to be thus turned; for it is certain, all iron will in time go back into its mineral nature again, notwithstanding the artifice of melting and hammering. I have seen of those hammered Spanish cannon, which had lain many years buried in the ground, under the old fort at Hull in Yorkshire, which were thoroughly turned into brittle iron stone, or mine again; and would not own the loadstone, no more than the rest of our English iron mine, till it was calcined, and then shewed itself to be go od iron again. Also I have seen and had by me, a piece of wood taken out of Lough-Neah in Ireland, which was not only good iron mine, but a loadstone too; so that it is evident nature, in this fort of mine, goes backwards and forwards, is generated and regenerated; and therefore Monsieur de la Hire has well used the term of vegetation in this assair, which I had done many years before him, in my book "De Fontibus Medicis Angliae," that is, out of iron mine will grow; and out of mine, a loadstone; as in the petrified wood.

I do not relate these things as though they were new discoveries; the world has long since known them by the great industry of our most learned countryman, Gilbert of Colchester, to whom little has been added after near 100 years, though very many men have written on this subject, and formed divers hypotheses to solve these phoenomena. A Dutchman, Mr. Hartsocker, one of the Academie de Sciences, has published a treatise of the principles of natural philosophy, and has accounted for these and many more experiments of this nature, which he had shewn him by Mr. Buttersield, whom he mentions very honorably.

And yet after all, the nature of these essential are little known, and what is said by Des Cartes of screw-sashioned particles, and the invisible channels and pores and pipes of the loadstone, are all mere fancies without any foundation in nature. It is well called by some a certain magnetic matter, but what properties it hath is little under-

ftood.

It is very strange to me that a little loadstone of that prodigious force, should have so fhort a fphere of activity, and not fenfibly to affect iron from above an inch or two; and the biggest and strongest not above a foot or two. We fee the vortices in water, how wide they work round about them, vailtly increasing the circles; and what little refiftance the air can make to a body of that fubtilty, as the effluvia of the loadstone, which can with ease penetrate all bodies whatsoever, marle, slints, glass, copper, gold, without any fenfible diminution of its virtue. Again, we fee the flame of a lamp in oil, or tallow, or wax, how short it is; and how long and tapering it is in spirit of wine. If therefore the magnetic matter was darted out of infinite finall pipes, and was of the nature of a more fubtile and invisible flame, why does it not continue its course in a direct line to a great length, but return fo fuddenly? We fee the perspiration of our tkins to rife into the air, and continue to mount, which yet has but a weak impulse from the heart, being interrupted and broke off when it comes out of the road of the blood into the ductus excretorii. But the circle of the magnetic matter is without any impulse, that we know of, from the stone; and moves in a double circle, and with a double and contrary stream in the same pipes, contrary to the laws of the circulation of the blood in animals; which has naturally but one current, and one road round; for the whole mais of vessels in which the circulation of the blood is concerned, is but one continued pipe.

Until the nature of the effluvia is better known, no very fatisfactory account can be given of the most common phonomena of the loadstone, ex. gr. why it does not draw to it all bodies alike? Why a great loadstone, though weak, extends its virtue much farther than a small one, though strong? Why a loadstone communicates its virtue to iron, as soon as it touches it, may even at some distance, and gives it the proper-

ties of a loadstone.

The truth is, the earth's being a great magnet feems to me a mere vision and fable; for this reason, because it is not iron. It is true, iron mine is the most common of all minerals, and found almost in all places; but it holds not any proportion with the rest of the softlis of the earth; and is not, at a guess, as a million to other softlis. This feems evident to any one, who has well considered the chalky mountains and cliffs, the high rag-stone mountains and lime-stone cliffs, the several quarries and pits sunk into the bowels of the earth for coal and lead, &c. how little iron there is to be found in comparison of other matters. Add to this, that very little of that very iron mine, which is to found any where, is magnetic, or capable of obedience to the magnet, till it is calcined. Whence therefore should all those magnetic essential arise, which are supposed

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Towards the discovery of the nature of the effluvia of the loadstone, fuch particulars as these, in my opinion, ought chiefly to be considered, and prosecuted with all industry. The loadstone is very good, if not the best iron mine
The sole fusion of the loadstone turns into iron. The fire destroys its very virtue, and so does vitrification iron. Fire will make iron mine own the loadstone, and turn to a magnet. Rust, (into which all iron will naturally turn) and the reduction of iron again to its mine, will take away all the magnetic capacity of iron. A loadstone cannot be made to alter its poles, but iron may; nor be deliroyed, but by the fire. A great and long bar of iron is naturally a loadftone, if held up perpendicularly, and it changes its poles at the pleasure of him that holds it: a strong loadstone looses much of its virtue by touching iron, but after a few days recovers it agair. A finall and weak loadstone cannot touch to give its virtue to a great lump of iron. A loadstone exposed to the air is spoiled in time. The deeper the vein of iron mine is, where loadstone is found, the better the stone, and how far this holds true, is to be confidered: for I do not doubt, but a very hard stone may be found near the day, as well as deeper. A ruler or long plate of steel is much better touched with the virtue of the loadstone, than a plate of mere iron of the fame figure; but on the contrary a plate of iron sticks much faster to the loadstone than a plate of steel; so as if a loadstone draws up a plate of steel of three ounces, it will draw up a plate of iron of four ounces and more. Why iron fastened to the poles of a magnet does fo vastly improve its strength, as to be 150 times stronger than when naked.

Since therefore a loadstone is nothing else but good iron mine, and may be turned into iron; and iron most easily and of itself into loadstone, the way to find out the nature of those magnetic effluvia, seems to be to inquire strictly into the nature of iron mine, and iron it self; and not to run giddily into hypotheses, before we are well stocked with the natural history of the loadstone, and a larger quantity of experiments and observations relating to iron and its mine, with all the differences and species of them; which I think has hitherto been little heeded. For nature will be her own interpreter, in this, as well as in all other matters of natural philosophy.

Mr. Butterfield, in another conversation, told me he had observed loadstones, which were strong without arming; and being armed, had not that great advantage by it, as one could have expected: and that on the contrary, there were others, which had a more incredible virtue when armed, than they did promise.

That it feldom happens, that a loadstone has as much virtue in one of its poles, as in the other; and that a bit of iron is touched equally well at either of the poles of one and the same loadstone.

That there are loadstones which take up much, and which notwithstanding are incapable of well touching iron: so that a stone armed, which takes up seven pound, yet cannot communicate to a ruler of iron the virtue of taking up a very small needle.

That a loadstone of ten ounces, being reduced to the weight of fix ounces or thereabouts, did almost the same effect as before.

I caused Mr. Butterfield to make the slate loadstone into a terrella, and when shod, it was indeed but of little force; but I observed its poles to lie level with the laminæ, of which it was composed.

N. B. A strong leadstone ought to have large irons, and a weak one but thin irons; so that a stone may be over-shod.

I waited.

I waited upon the abbot Droine to vifit Monfieur Guanieres, at his lodgings in the Hostel de Guise. This gentleman is courtefy itself, and one of the most curious and industrious persons in Paris, his memoirs, manuscripts, paintings, and stamps are infinite, but the method in which he disposes them, is very particular and useful. He shewed his portefeuilles in solio, of red Spanish leather finely adorned. In one, for example, he had the general maps of England: then the particular maps of the counties: then the maps of London, and views about it: then the stamps of all the particular places and buildings of note about it: and so of all the cities in England, and places and houses of note of the counties.

In other book-cases, he has the stamps of the statesmen of England, nobility of both sexes, soldiers, lawyers, divines, physicians, and men of distinction. And in this method

he has all Europe by themselves.

His rooms are filled with the heads of a vast number of men of note in oil paintings and miniatures or water-colours. Among the rest, an original of King John, who was prisoner in England, which he greatly values.

He shewed us the habits in limning from the originals, done by the best masters, of all the kings and queens and princes of France, for many ages backwards. Also the tur-

naments and justings at large; and a thousand such things of monuments.

He was so curious, that he told me, he feldom went into the country without an Ama-

nuenfis, and a couple of men well skilled in defigning and painting.

He shewed us amongst other curious manuscripts, a capitularie of Charles V. also the gospel of St. Matthew wrote in golden letters upon purple vellum. This seemed to me to be later than that manuscript I saw at the abby of St. Germains; that is, the letters less and more crooked, though indeed, the letters of the title page are exactly square.

One toy I took notice of, which was a collection of playing cards for 300 years. The oldest were three times bigger than what are now used, extremely well limined and illuminated with gilt borders, and the pasteboard thick and sirm; but there was not a

complete fet of them.

Among the persons of distinction and same, I was desirous to see Mademoiselle de Scuderie, now 91 years of age. Her mind is yet vigorous, though her body is in ruins. I confess, this visit was a persect mortification, to see the sad decays of nature in a woman once so same. To hear her talk, with her lips hanging about a toothless mouth, and not to be able to command her words from slying abroad at random, puts me in mind of the Sybil's uttering oracles. Old women were employed on this errand, and the infant-world thought nothing so wise as decayed nature, or nature quite out of order, and preferred dreams before reasonable and waking thoughts.

She shewed me the skeletons of two cameleons, which she had kept near four years alive. In winter she lodged them in cotton; and in the siercest weather she put them

under a ball of copper full of hot water.

In her closet she shewed me an original of Madame Maintennon, her old friend and acquaintance, which she affirmed was very like her: and, indeed she was then very

beautiful.

The marquis d'Hopital, one of the Academie de Sciences, whom I found not at home, returned my vifit very obligingly. I had a long converfation with him about philofophy and learning; and I perceived the wars had made them altogether (trangers to what had been doing in England. Nothing was more pleafing to him than to hear of Mr. Ifaac Newton's preferment, and that there were hopes, that they might expect fomething more from him: he expressed a great desire to have the whole set of the Philofophic Transactions brought over, and many other books, which he named, but had not

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yet feen. He told me, it was not possible for them to continue the Monthly Memoirs, as they had do for two years only, because they were but very few in number of that fociety, and do very little correspondence. Indeed I did inquire once of some of that body, why they did not take in more, since there were very many deserving men in the city, as I instanced in F. Plumier. They owned he would be an honour to the body: but they avoided to make a precedent for the admission of any regulars whatsoever.

I repaid the Marquis lis visit: he lives in a fine house, well furnished: the garden pretty, with neat trelliage, wrought with arches and other ornaments.

He expressed a great desire to see England, and converse with our mathematicans, whose works he coveted above all things, and had ordered all to be brought him over.

His lady also is very well studied in the mathematics, and makes one of the learned ladies in Paris; of which number are Mad. Dacier, the Duchess of Main, Mad. Scuderie, Mad. de Vicubourg, Mad d'Espernon the daughter, Mad. Pres. de Ferrand, and others, whose names I have forgot.

I bought the works of Pere Pezaron, a Bernardin, now Abbot de Charmoyse near Rheims. This is a very learned and disinterested author, and by his free way of writing has got him enemies amongst the regular clergy. The books I bought were his "Antiquities or Account of Time;" "The Defence of it against Two Monks;" "An Essay or Commentary upon the Prophets;" "The History of the Gospel."

He is now upon giving us the "Origin of Nations," where he will shew, that Greek and Latin too came from the Celtique or Bas-breton; of which country he is. He told me he had eight hundred Greek words perfect Celtique. I settled a correspondence betwixt him and Mr. Ed. Floid; which he most readily granted, and which he said he had long coveted.

Monsieur Spanheim, now Envoy Extraordinary from the Duke of Brandenburgh at Paris, told me, that the King of France's collection of medals is far the best in Europe, or that ever was made. Having the opportunity of discoursing him often, his sick lady being my patient, I inquired more particularly of him, what he had seen of Palmyra, of Zenobia, Oedenatus, Vabalathus. He desired a memoir of me, which I gave him, of what I would have him search for in the king's cabinet, and promised me all the satisfaction he could give me in that affair.

I told him I had met with nothing yet, but a fair busto in white marble of Zenobia, in the cabinet of M. Baudelot; which was part of Mons. Theyenot's collection of marbles from the East.

I was to wait on Monf. Vaillant at his apartment in the Arfenal. I found only his fon at home, who very civilly entertained me; and shewed me a book in quarto of his fathers of Greek Medals, near printed off; but without cuts. The title was "Nummi Greeci Imperatorum;" he goes down no lower than to Claudius Gothicus. He has added a large appendix, with references to all the most remarkable heads about the cities and the people.

I left a memoir with his fon; and in a fccond visit, I found the old gentleman at home, very busy in his flower garden; of which I shall speak hereafter.

He told me, as to the memoir I had left, he had never feen any coins of Oedenatus; yet he had very lately parted with one of Zenobia to the Duke of Maine. As for Vabalathus, he had feen some of him in brass; and one he had in silver, which he very obligingly made me a present of; and that this was the only silver coin he had ever met with of him.

This is his reading of it.

VABALATHUS. V. G. R. IMP. R. Vices gerens Imperii Romani.

Les autres y lijent mal. YCRIMOR.

He gave me also the stamps of the heads of Zenobia and Vabalathus, done from the king's medals. These were designed for a short history of all the emperors and emprefles, which he has by him written in French, but not published. Nothing could be more civil and frank than this gentleman, whom I believe to be the best medalist in Europe: he told me he had made twelve voyages all over Europe and Afia minor on purpole. That he had feen and described the contents of more cabinets, than any man ever did before him; and it is evident by his works, that he has made good use of them.

I had a vifit from Mr. Cunningham, tutor to my Lord Lorne, a very learned and curious man in books. I asked him (knowing him to have been lately at Rome) very particularly about the papers of Monsieur d'Azout. He told me that he faw him not above half a year before he died, and was very intimately acquainted with him, and faw him for a twelvemonth very often. That he told him that he had about eighty difficult paffages in Vitruvius, which he had commented and explained; and the correction of a great number of errata in the text. Also that upon Julius Frontinus (though that was a much less book) he had much more to fay, than he had upon Vitru-What is become of his papers I could not learn from him, nor any in Paris.

Monsieur d'Azout was very curious and understanding in architecture; for which purpose he was seventeen years in Italy by times; I do remember, when he was in England about fourteen years ago, he shewed me the design of several of our buildings drawn by himfelf; but of that of the banquetting-house at Whitehall, he expressed himfelf in very extraordinary terms, telling me, it was the most regular and most finished piece of modern workmanship he had seen on this side the Alps, that he could not enough praise it: that Inigo Jones, the architect, had a true relish of what was noble in that art.

It is now time to seave the private houses, and to visit the public libraries; and with them fuch persons, as are more particularly concerned in the history of learning.

Monsieur l'Abbe Drouine came to visit me at my lodgings. I returned the visit the next day at his apartment in the College de Boncourt. He had four or five little rooms well furnished with books; in the biggest he had a collection of catalogues of books, and of all fuch, who had wrote the accounts of authors; above 3000 in all languages. He told me, he had studied the History of Books with the utmost application eighteen years, and had brought his memoirs into a good method; that he had thoughts of printing the first tome this year, which would be of the most ancient authors, Greek and Latin; that he intended to continue them throughout all the fucceeding ages down to our times; which he faid he had performed in good part.

He shewed me the Catalogue of authors in four very thick folio's; alphabetically difposed by family names, under some such title as this: "Index alphabeticus omnium Scriptorum, cujuscunque facultatis, temporis & lingua. Those came to about 150,000.

He also shewed me his alphabetic memoirs in sheets of the authors and books they had wrote, and in great forwardness. And lastly, the Chronological Catalogue, in which

form he intends to print the whole.

He is a very civil and well tempered perfon, very learned and curious, and of a middle age, fit to continue and finish such a laborious work. I was infinitely obliged to him for his frequent vifits.

I was

I was to wait on Monsieur Gurni one of the cirs of Monsieur Therenot, to see the remains of that famous man's library There a great number of Oriental MSS. yet unfold.

He shewed me the MS. of Abulfeda, with its Latin version, done by Monsieur Thevenot; and the matrices and forms of Arabic letters, which he had, at his own charge,

canfed to be cut for the printing of certain proper names in it.

He went or defigned to go into England and Holland to get it printed, but was called back by Monfieur Louvois's order to print it in France at the king's charge; but the late wars coming on, it was fet afide, and is like to be fo; for he was turned out of his place of library-keeper to the king, and died in difgrace.

Those great number of Oriental books he had most from his nephew, whom he sent

abroad for that purpose, and who died in his travels.

This man was, as it were, the founder of the Academie des Sciences, and was in his

own nature very liberal, and gave penfions to many scholars.

Amongst other things I saw there a large dictionary or grammar of the Algonquin tongue, one of the nations of the West-Indies. The fugitive jesuit, who wrote it, dwelled among them twenty years. Here I also saw a history, with large and accurate descriptions of the quadrupeds of that part of the West-Indies by the same author.

As for the papers of Swammerdam, which indeed were the things I most coveted to fee, they were much beneath my expectation, not answering the printed catalogue of Thevenot, p. 239. There were indeed some corrections of the figures of his general History of Infects, and some additions, as though he intended another edition of that

book.

Also towards a particular history, there were some small treatises, or rather some singures only of the tadpole. Again, sigures relating to the natural history of a certain day buttersly; of the asilus; of the scuttle sish; of the Scarabæus Nasicornis; and some considerable number of smalls, as well naked, as sluviatil, and sea dissected; at least sigured with their bodies exerted, and some of their bowels extracted; and which seemed to me to be well understood and delineated. There were two or three stiched books in Dutch of sour or sive sheets apiece, belonging to those plates or sigures. But the gentleman would not part with any of them, because, he said, they had been secured by the abbot Bignon, for the King's use. However, all these I judge were worth printing, when it shall please that society to do it.

Lastly, I saw in his custody a fair MS. of Michael Servetus, with a treatise at the end of it, which, as he said, was never published; being a comparison of the Jewish and

Christian law, its justice and charity.

Monf. l'Abbe de Brillac, almonér to the Prince of Conti, very obligingly offered to carry me to the king's library; but I civilly declined it, for I had been told, it was better to make visits by one's self: for no stranger but was very welcome at all times; not

only on the days it was publicly open, as it is upon Tuefdays and Fridays.

Monf. Clement, the deputy library keeper, made us welcome, and invited us to come again, and fpend a whole day with him. He made me in particular a very great compliment, as a confiderable benefactor to that place, shewing me most of the books, and the names of the rest, I had published in Latin; and shewed a great fatisfaction, that he had got the Synopsis Conchyliorum, which he had caused to be bound very elegantly. I told him that I was very forry to see it there, and wondered how he came by it; for it was, I assured him, but a very imperfect trial of the plates, which I had disposed of to some few friends only, till I should be able to close and finish the design; which I now had done to my power, and would redeem that book with a better copy at my revolutive.

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turn into England: the same promise I renewed to the abbe Louvois, the library keeper, at his own instance, when I had the honour to dine with him. The reader will pardon me the vanity, if I tell him, that this book was no inconsiderable present, even for so great a prince, as the King of France; for that besides the time that it took me up (ten years at least) at leisure hours, to dispose, methodise and sigure this part of natural history, it could not have been performed by any person else for less than 2000!, sterling; of which sum yet a great share it stood me in, out of my private purse. This young gentleman is brother to Montieur Barbesieux, intendant of the affairs of war; he takes great care to apply himself to his studies, and for that purpose has two of the Sorbone constantly with him to instruct him. He lives great, and has a house, which joins upon the king's library, of which he is keeper. We were entertained by him with all the

civility imaginable, and freedom of conversation.

This library is now placed in a private house, and taken out of the Louvre, but it is intended to be removed to the Place de Vendosme, where one side of that magnificent fquare is defigned for it. In the mean time it is here most commodiously disposed into twenty two rooms; fourteen above flairs, and eight below and above. Those below are philosophy and physic, and the shelves are wired, to secure them. Above are the books of philosophy and human learning; and it is in those rooms only the promiscuous crowd are admitted twice a week. In the middle rooms, which makes the great body of the library, are, for example, catalogues of books; histories in one of England and Holland; in another the histories of France and Germany; in another the histories of Italy, Spain, &c. in another bibles of all forts, and the interpretations; in another Greek MSS. in another Latin MSS. in another the civil and municipal laws of all nations; in another the original papers of the state; in another stamps, where, by the by, the king had the collection of Monf. Marolles to divert him, in one of his ficknesses, bought in at a vast fum. The catalogue alone of these stamps, no bigger than two small almanacks, cost me fourteen livres; fo much strangers are imposed upon by the crafty bookfellers of Rue St. Jacques; but it is not in France alone where people are made to pay for their humour.

They have two indexes of this library; one relating to the matter and contents of books; and another index of authors, wherein are all the works they have of them, and the titles of all likewise that they know of, that are wanting, with an afterism to such in the margin; which is well Jone, that they may know what they have to buy in. It is indeed a vast collection, and worthy so great a prince. This library consists at least of sifty thousand volumes of printed books; and sifteen thousand MSS. in all lan-

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They work daily and hard at the catalogue, which they intend to print; I faw ten thick folio's of it, fairly transcribed for the press. It is disposed according to the subject matter of the books, as the bibles and expositors, historians, philosophers, &c. They purpose to put it into the press this year, and to finish it within a twelvementh.

In the king's library I was shewn an ancient Greek MS. of Dioscorides, wrote in a fort of thin or narrow capitals, with the plants painted in water-colours; but the first book was wholly wanting, and therefore the animals not there, which yet was what I most defired to see; for there are some things relating to them, which we are at this day in great doubt of; and it would have been some satisfaction to have seen by the pictures, what the middle ages, at least, had thought of them.

In the fame room also we were shown the epistles; which was one part of the same MS. which we have at Cambridge, which is the gospels only. Beza was possessed of ours, from whom we had it. It is written in square capitals, and very short lines, and

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of the fame possessed of t lines, and much much worn out in many places. This comes much short of the Alexandrian MS. at St. James's for beauty and antiquity.

There was another MS. of the gospel of St. Matthew, which was but of late discovered; a very fair volume in a large folio. This was cut to pieces in the back, and had been shufiled and bound up again; and another book overwritten in a small modern Greek hand, about 150 years ago. The first writing was turned so pale that they took no pains to rub it out. One of the library keepers observing this, hath reduced it again by paging it a-new; and with a little heeding it is yet very legible. The letter is as fair a square capital as any I have seen. There are some interpolations very notorious, as about the descent of the sick man into the pool of Bethesda; which I suppose will be accounted for by the industrious and learned collator.

I observed the China manuscripts which father Beauvais brought this year as a present to the king. They are about forty-sour packs of small books, of a long quarto fashion, put up in loose covers of a purple sating glued on pasteboard; of natural history, of dictionaries relating to the exposition of their characters, &c.

The king had a fet much of the fame before in white fatin, with their titles.

Here also I saw the third decad of Livy, a large quarto in vellum, without distinction of words in fair large capitals. It is supposed by Monsieur Baluze to be 1100 years old.

Yet the manuscript of Prudentius Hymnes, which was also showed us, is a much fairer

letter, and therefore thought to be older by one century at leaft.

Here also I saw a famous Latin roll or volume, written on Ægyptian paper, intitled, Charta Plenaria Securitatis, taken the 38th year of Justian; it is fairly engraved and interpreted letter by letter upon copper by Monsieur Thevenot. I saw the print thereof: it is wrote long-ways the roll and not cross, in three columns: the column in the middle is three times as long as the two end columns. The roll is not above a foot broad.

They shewed us also in this house the apartment of Monsieur Huygens, which was very noble, and well for air, upon the garden: but here he fell melancholy, and died of it in Holland. He shewed the first tokens of it by playing with a tame sparrow, and neglecting his mathematic schemes. It is certain, life and health of body and mind are not to be preferved, but by the relaxation and unbending the mind by innocent diverfions. For fleep is nothing elfe that I know of, but the giving up the reins, and letting nature to act alone, and to put her in full possession of the body. We have a convincing instance of this, in being in bed awake. No man can lie still scarce three minutes without turning; and if it come not presently upon us, we must turn again and again, and at length we become fo intolerably weary, that our bed is a very rack to us. Whereas, if we chance to fall afleep, though we lie in one and the fame posture seven hours, we shall wake fresh and without pain, as though the body did not weigh at all upon itself in sleep. It is certain, the nerves and muscles are in little or no tension in sleep; but when we are awake, are always stretched and compressed, whence weariness: which, if upon our feet or sitting, we are not sensible of, because we remove quick and with eafe, and of course; but laid, we foon find ourselves very uneafy, till we change the posture.

But this is not all in the king's library: there are other things to be seen, viz. a considerable number of ancient Roman and Egyptian antiquities; as lamps, pateras, and other vessels belonging to the sacrifices; a sistrum or Egyptian rattle with three loose and

running wires crofs it.

Amongst the great variety of Egyptian idols, there was one betwixt two and three feet long of black touch-stone, with hieroglyphics engraven down before. I took particular notice of the grain of this stone; and at my return, having had the honour of a paper from Mr. Molyneux from Dublin, giving an account of the vast and stupendous natural pillars to be seen in Ireland, some of them of fifty feet high, and thick in proportion, and that the stones or joints, which constitute these pillars, are of the Lapis Lydius, or Basaltes kind, having seen one of the joints at Gresham college, I easily agree with him; but much admire that the pebble kind should produce such regular sigures; which is certainly the very hardest stone to be found in Europe, and which no tool of ours will cut.

This also is another instance (the carved obelisks being one) of the different make and goodness of the Egyptian chifels, of which, and of the retrieving the ancient temper

of steel, I have published a discourse in the Ph. Transactions some years ago.

I should have had more satisfaction in this kind, had I met with what I carnestly fought for, the Egyptian tombs, which were a long time in the garden of Monsieur Valentine at Paris; but were unluckily sent away to his house at Tours, not long before our coming to Paris. One of these tombs is said to be of black touch-stone, to have been brought out of the higher Egypt, and to be full of hieroglyphics. Of this in particular Kircher has written.

There is in this collection a large piece of tin ore from England, very curious; it has on one fide of it a great number of fair and large opaque crystals of tin, shining like polished steel. The planes of those crystals I could not easily reckon; but sure I am, having with care examined all the stone crystals I could meet with, both precious and more common, and also the crystals of all fossil salts, I never before observed that sigure in any of them, but believe them of a peculiar nature, proper to tin oar. I call them

crystals, though opaque, because angular and of one constant figure.

I was at the college of Clermont with Pere Hardouin; he shewed me the library with great civility; it consists of two long galleries; the galleries are well furnished with books, having lights only on one side, and the windows are not over large; with tables under each light, very commodiously placed for writing and reading. Also certain closets for manuscripts, and others for forbidden books. In this he shewed me a great collection of Jansenius's original letters. In the other a Greek manuscript of the prophets, of Eusebius's own hand writing; it was in capitals, but of a different character from any I had seen: the letters very erect, but something thinner, and not so square.

Alfo a vulgar Latin in capitals, very ancient.

I told him I was well pleafed with his Pliny in usum Delphini; and that it was to the honour of the French nation to have laboured more particularly upon that author; Dalechampius first, then Salmasius's Exercitationes Pliniana; and lastly, this his most elegant edition.

The books are well disposed under gilt titles, as Medici in solio, and over against them, where the windows will permit, the Medici in quarto: in the other gallery runs a ba-

lustrade, within which are placed the octavo's and twelves.

At one end of the upper gallery is a very large tableau, an original of Nicolo, of the maffacre of Agamemnon; in it there is this commendable, that in such a horrid fury, and such variety of murders in half naked figures, no one indecent posture is to be feen.

Pere Hardouin seemed to doubt of the Inscription of Palmyra put out by M. Spon; that the Greek was faulty, and the Syriac very questionable. I told him we had had it

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M. Spon; had had it lately lately copied, carefully and truly by one at Rome: which took away his objection of the multiplicity of letters.

Both he and Vallant agreed, that they had never feen any medal of Oedenatus. He very obligingly aufwered my memoir about Palmyra, Zenobia, and Vabalathus, with a transcript of all the coins he had feen, and had in his poss slice; which follows:

Nummi Zenobiæ.

CETITIMIA ZHNOBIA CEB. R. Spes. eft apud Seguinum, p. 62.

Occlenati nullum vidi, nifi apud Occonem, nullum Palmyrenum.

Vabalathi apud Com. Foucalt, rei ærariæ ac judiciariæ Præfectum in Neustria inferiore.

A. K. A. AOM. ATPHAIANOC. CEB. capite laureato. Sub ipsum Aureliani mentum litera

L. absque anni numero.

R. ATT. EPMIAC OTABANAOOC AOHNOY. capite radiato.

AVT. K. A. A. ATPHAIANOC CEB. capite laureato. L. A.

R. AVT. EPMIAC. OYABAAAOOC. AOH. capite diademate L. A.

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IMP. C. AURELIANVS AVG. capite radiato.

R. VABALATHVS VCRIMPR. alii male VCRIMOR. fic olim interpretatus fum. Vice Cæsaris, rector imperii Romani.

IMP. C. VHABALATHVS AVG- capite radiato.

R. VICTORIA AVG. victoria gestat palmam & coronam.

The library of the Grand Jesuits, near the gate St. Antoine, is a very fair gallery of great length and breadth, and well furnished with books, on the very top of the house. They find, that books keep much drier and sweeter there, than in lower rooms, besides the advantage of a clear sky-light.

P. Daniel is library keeper, and was very civil to me; he shewed me a letter, which he had just then received from Monsieur Huetius, the learned bishop of d'Auranches near Mont St. Michael's in Normandy; wherein he told him, that having lately received the catalogues of books printed in Holland and England during the war; he found, that learning was much alike at a kind of stand in Holland and France; but, that it had yet life and vigour in England, which he rejoiced at.

And, indeed, I had had the fame thought from more of the French before. Even the Jesuits themselves will be little considered, if learning sall into neglect and disgrace. Oratory ceased with the commonwealth of Rome; and so will all forts of learning without emulation and rewards.

He shewed me P. de ly Chaise's cabinet of medals.

Also a vestal of copper found at Dee in the country of le Forest.

Also a very intire loaf or Roman ten pound weight of red copper, on which was inferibed Dea. Sec. P. X.

Also a square stone urn, or small tomb, well carved and inscribed

D. M. SVLPICIO NOTO. ADESTE SVPERI.

I faw the choir of the abbey of St. Germains, and the altar near the lower end of it; in which position also I remember to have seen an altar in the choir of St. John's

church at Lyons; both plain tables. Monf. l'Abbe de Villiers, who has an apartment in the convent, a learned man, went with me, and to the library also; which is two large galleries well furnished; at the end of one of them is a large closet of manuscripts; also another armoir in the great library, where the most ancient manuscripts are kept, yet with more care. In this I saw the pfalter, as it is believed, of St. Germain, who lived in the fixth century; it is certainly very ancient; being a large quarto of fine purple vellum, and on it are wrote the pfalms in large capital letters, with commas or points. The letters seem to have been of filver; and the great initial capitals of gold.

They shewed also a pfalter in the short notes of Tyro, Tullius's Libertus; with a discourse concerning the use of such short hand in the beginning of the manuscript; it

was wrote very fair on vellum, with red ink, as I remember.

The codicils or waxen table books of the ancients; which were thin cedar boards about fourteen inches long, and five broad, fix or eight of them glued together by fhreds of parchment: the rims were a little raifed, with a flat and broad border, the better to preferve the black wax, which was spread over them. I saw more of these afterwards in the king's library; and by the letter it is manifest, they were in use much later than I could have imagined. This was in Latin, and I could read here and there a word, for the ground was much torn up, as Pro duobus Falconibus, &c. The style or steel pen had cut through in many places; so that with a good eye-glass I could see the board bare. I take this paste to be nothing else, but what the etchers in copper use at this day to cover their plates with, to defend from the aqua-fortis; which is a composition of bitumen and bee's wax.

Here also I saw a manuscript of three or four leaves written upon true Egyptian paper, in which with an eye-glass it was easy to discern, how the slags were disposed, lengthways and across one over another. The letters which remained, which were but sew, were large and fair square capitals. This fragment I take to be the most ancient writing

they have.

I visited in this convent, at his chamber Pere Mabillon, who has so well deserved of the commonwealth of learning by his writings, and particularly that excellent book De Re Diplomatica; he seemed to me to be a very good natured and free-hearted man; and was very well pleased to hear, that our catalogue of English manuscripts was so forward in the press at Oxford. He thankfully owned the favour of the Cotton library; and was very forry to hear of Dr. Bernard's death, of whom he spoke very kindly; but he expressed a wonderful esteem for Dr. Gale, the Dean of York.

In another conversation I had with P. Mabillon, (for he was my neighbour, and I was often with him) telling him the account we had brought us of Palinyra, and the tracks that were written of it, and that more was intended to be published about it: he was much concerned, that those accounts, which were pure matters of learning in general, were written in English; and he told me, he was afraid it migh be with us, as it was with them, fince they cultivated their own language so much, they began to

neglect the ancient tongues, the Greek and Latin.

He shewed me certain figures not ill taken with red chalk, of some very ancient monuments observed by some of the fathers of their order; one of which was present in the chamber, upon the mountain of Framond near Salme, which lies in the iniddle of that tract of the mountain, called la Vague, betwixt Alface and Lorraine. There were great remains of an ancient city. These figures, which the fathers shewed me, were about twelve n all; but five or fix of them were of Mercury; a cock at his foot; a chlamys knoted upon the right shoulder, hanging at his back; his hair laid in curls about his sace, and tied with a ribband, whose two ends might be seen on the

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top of his head, like horns; a caduceus in his hand, which was very differently reprefented in all the figures of him; fometimes held up, other times the point resting at his feet; fometimes the snakes were twisted about a slick; and again in others without one, or the designer had taken no notice of it; sometimes the tail of the serpent spread and slying about, and again in others close twisted with many braids; a girdle came round the bottom of his belly, and which had in the middle of it two rings, one fastened to the other, and hanging betwixt his legs. These many statues of the Gauls, in his sixth book, Deum maxime Mercurium colunt: hujus sunt plurima simulacra.

There were some few Roman letters on some of them, which were so imperfect,

that I could make nothing of them.

The library of St. Genevieve is a very large and fair gallery, upon the very top of the house, well stored with books on both sides up to the top, and kept in cases wired with brass; which is a good security, and hinders not the books from being seen.

Also it is adorned with fair busto's of the ancient men of learning.

The nufeum is a little closet on the side of this gallery; of which there is a book lately published: I saw in it very little of natural history, that was remarkable. They keep half a dozen joints of a large cornu ammonis, which they shew as a rarity. But it is well stored with ancient idols, and sacrificing vessels, lacrymatoirs, pateras, strigils; also ancient weights and measures; coins, and particularly the As, and its first and latter divisions.

There we saw an ancient As, with Etruscan letters of a kind of red copper; the letters seem to be a kin to the old Greek characters. These are the capital letters about

the coin going round, and bringing every letter before you.

As quasi Æs: this is very reasonable; for before the Greeks had invented double letters, the Romans were skilled in their writing. So Vitruvius * tells us Ærugo was in the Etruscan tongue called Eruca. Whence undoubtedly by translation the common caterpillar had its name, from its blueness; which also is an evidence, that the Tuscan writing was in the old Greek character.

But nothing pleased me more than to have seen the remains of the cabinet of the noble Pieresc. the greatest and heartiest Mæcenas, to his power, of learned men of any

of this age.

Amongst the first and very old brass Roman coins there was a sextans, with a caduceus of Mercury on one side, and a scallop shell on the other; probably, because they might have at first had the use of shell money, as some parts of both the Indies and Africa have at this day, till Mercury, whose emblem that staff is, taught them the use of metallic money.

Also in this cabinet are wet measures, as the ancient congius, of which they have an old one, and an exact copy of that of the capitol; also a sextarius, and a quartarius. Now the congius containing 120 ounces; the sextarius 20 ounces; the hemina ten ounces; the quartarius sive ounces. I doubt not, but the cyathus, by reason of the aforesaid division, held two ounces and an half; which is the measure, so frequently to be met with in old physic authors, and of so great concern in doses.

In that Etruscan as before mentioned, one cap coifs or covers the double head of Janus. I saw an ancient statue of Mercury in the garden belonging to the King's library in Paris, where Mercury has upon his head a long cap doubled, or laid double

^{*} De Architect. 1, 7. c. 2. Ed. Barbari.

upon his head, as though there were some affinity betwixt those two inventors of trade,

arts and learning.

Here allo we saw the steel dyes of the Paduan brothers, by which they stamped and falsified the best ancient medals so well, that they are not to be distinguished but by putting them into those moulds; which makes them very valuable, there being 100 and more of them, and are prised at 10,000 crown. They stamped upon old medals whereby the cheat was the greater; for by this means they were of the ancient metal, had the green coat, and the same ragged edges.

I faw a picture here of about fix inches over, finely painted in Mosaic, the very little squares were scarcely visible to the naked eye, but the whole appeared like the finest hatchings in stamps; yet by the application of a good eye-glass, I could readily distinguish the squares of all colours, as in other Mosaics. This sort of painting had a very admi-

rable effect, besides the duration.

Here was also the leg of a mummy well preserved, the toes only bare, black and shining as pitch: the bandage was very curious, and was disposed in o lique circles, decussated; but the filleting very narrow. I told the father, that it was still flesh; and that mummy therefore in Venice treacle did break lent, if given at that time: he answered, he did not believe it: I told him how he should be convinced, viz. if that leg was kept a good while in a damp cellar, it would yield and stink like very carrion, though it was at least 3000 years old; which thing happened to one in London, so

carelessly laid by.

There was one thing very curious, and that was an ancient writing infrument of thick and firong filver-wire, wound up like a hollow bottom or forew; with both the ends pointing one way, and at a dillance; so that a man might easily put his fore-finger betwixt the two points, and the screw fills the ball of his hand. One of the points was the point of a bodkin, which was to write on waxed tables: the other point was made very artificially, like the head and upper beak of a cock, and the point divided in two, just like our steel-pens; from whence undoubtedly the moderns had their patterns; which are now made also of fine sliver and gold, or princes metal; all which yet want a spring, and are therefore not so useful as of steel, or a quill: but a quill soon spoils. Steel is undoubtedly the best, and if you use China ink, the most lasting of all inks, it never rusts the pen, but rather preserves it with a kind of varnish, which dries upon it, though you take no care in wiping of it.

I faw the library of the late Monsieur Colbert, that great patron of learning. The gallery, wherein the printed books are kept, is a ground-room, with windows on one fide only, along a fine garden. It is the neatest library in Paris, very large and exceedingly well furnished. At the upper end is a fair room, wherein the papers of state are kept; particularly those of the administration of Cardinal Mazarine, and his own accounts, when he was in employment. These make up many hundred solios,

finely bound in red maroquin and gilt.

The manufcript library is above thairs, in three rooms, and is the choicest of that kind in Paris: It contains 6610 volumes. The catalogue of them Monsteur Baluze shewed me; which he said was designed shortly for the press.

He shewed me many rare books, Carolus Calvus's bible, a vast folio in vellum,

and his prayer book or hours, all writ in gold letters.

Also the Missa Beari Rhenani, whereof all the copies were burnt but four. The original deed of the agreement of the Greek and Roman church at Florence, the Regalia agreed upon at Lyons, and many others, which I have forgot.

I faw neither Greek nor Latin munufcript, but what had the marks of the Goths

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He shewed us Servieto's book, for which he was burnt at Geneva; which cost Monsieur Colbert at an auction in England twenty-sive crowns. The title is, De Trinitatis Erroribus Libri 7. fer Michaelem Serveto alias Reves ab Aragonia Hispanum 1531. I had forgot the particular place where the circulation of the blood through the lungs is mentioned: but he told me very civilly, I should have it transcribed at any time.

We told him, we came to fee him as well as the library: he replied, it was his hap to have more reputation than merit. He was a little old man, but very cheerful, and

of a quick wit.

He complained much of the refusal of the Emperor's people concerning the manufcripts of Vienna, in order to the publication of the capitulaires: for he said, letters were never at war: that for his part he had most willingly given leave for at least twenty-four manuscripts to be collated for Dr. Mill's edition of the New Testament.

The library of the Sorbonne is a very long and large gallery, reasonably well stored

with books; no catalogue printed.

Amongst the manuscripts, they shew, Titus Livy in French, upon vellum, in a very large solio, bound in two books: the sirst is almost throughout illuminated with very sine miniatures. The book is dedicated to King John, by Peter Berchorius: and in the title page is a very curious design of that king receiving the present from the author of the translation.

Amongst the illuminations and ornamental pictures in the margin, I could not but take notice of a brack cannon fired, well painted, with two large arms or gudgeons one on each fide near the touch-hole; which evinces cannon to have been in use at that time.

This manufcript confirms the loss of Titus Livy, and that it was deficient in that age, as to what is now wanting, there being nothing more in this than what is in the printed copy. This was the gift of Cardinal Richlieu to the library; who in a manner re-built the whole college, and beautified it as it is. His tomb is in the middle of the quire, before the great altar, in white marble; and is for plainness and exquisite performance, the best thing of that kind I ever saw.

I faw the library of St. Victor: this most ancient convent is the best seated of any in Paris; has very large gardens, with shady walks, well kept. The library is a fair and large gallery: it is open three days a week, and has a range of double desks quite through the middle of it, with seats and conveniencies of writing for forty or fifty people.

The catalogue was not finished, nor intended to be printed; which yet I think is always necessary in all corporations, for check of loss of books, for the use of stran-

gers, for benefactions.

In a part of it, at the upper end, are kept the manuscripts; they are said to be 3000; which, though not very ancient, have yet been found very useful for the most correct editions of many authors. This is one of the pleasantest rooms that can be seen, for the beauty of its prospect, and the quiet and freedom from noise in the middle of so great

In this convent is very prettily lodged, in an outward court, Monsieur Morin, another physician of that name. In his apartment, he hath a large and excellent collection of physic books and natural history. He faluted me with the greatest kindness imaginable; and at first word, asked me, if there was any more of Sir Francis Willoughby's works printed besides his history of sishes, and that other of birds; both which he had. He had in another room a well stored museum of natural history, of all forts, and of comparative anatomies: a cabinet of shells, another of seeds, among which were some from China: variety of skeletons, &c.

VOL. IV.

G

I faw

I faw the Celeftins. The library is an upper gallery, very pleafant, and plentifully furnished with books. This is a very fine convent; with the noblest Dortoire, having open galleries round: also, very large gardens, with alleys and shady groves; and divers kitchen-gardens, well cultivated. Also a vineyard of white-wine grapes, well

kept; which is the only thing of that kind within the walls of Paris.

Here I also saw the closet or cell of P. Hochereau; who had a very choice collection of original paintings, of very many of the best masters: amongst the rest, I took notice of the originals of Rambrant, excellent pieces. St. Peter and the cock: the nativity of our Saviour: and, the massacre of the innocents. His colouring is not to be imitated: his invention great and natural, and the design most correct.

I was to visit Pere Mallebranche of the fathers of the oratory: they live very neatly together in a kind of community, but under no rule: he was very handsomely lodged, in a room well furnished: he is a very tall, lean man, of a ready wit and cheerful

conversation.

After an hour's discourse, he carried me into the public library of the house: a fair gallery well lighted, and well furnished with books; with an apartment at the upper end for manuscripts, where were many Greek and Hebrew. Amongst the rest, the library-keeper shewed us the Samaritan Pentateuch, of which Morin made use. It seemed to me to be much later than that of Sir John Cotton's library with us, because it was of a much smaller letter, and more broken in the writing, which was all I am capable to judge by.

They were busy in reforming the disposition of the library; and making a good catalogue, according to the method of the late archbishop of Rheims; and which I liked well of, they had drawn out some hundreds of books, and expected them in the middle of the library, upon a long table, for sale, as being duplicates; and from the sale

of them to furnish themselves with what they wanted.

The books which were written by protestants, I observed, they were locked up in

wire cases, not to be come at without particular leave.

The freedom and nature of this order puts me in mind of what I heard of a certain rich and learned man, Monsieur Pinet, of the law; who put himself at length into religion, as they say, amongst the fathers; but first persuaded his cook to do so too; for he was resolved not to quit his good soups, and such dishes as he liked, whatever became of his penance and retirement. This compliment the elegant and learned Monsieur Peletier, in Monsieur Colbert's place, Compt. oller General of the Finances made his guests at his country-house near Choisy, having voluntarily quitted all his employments at court: he said, he reserved his cook, though he retrenched the rest of his retinue; they might therefore expect a slender philosopher's dinner, though well drest.

It is wonderful to consider how most of the rest of the orders abuse themselves for God's sake, as they call it. Hunger and ill diet not only destroys a man's health, but maugre all his devotion, put him out of humour, and makes him repine and envy the rest of mankind: and well if it do not make him also curse in his heart his maker; Job is not every man's roll to act. The original and rise of natural philosophy and physic was to invent a more wholesome and better food, than the beasts have, and to eat bread and sless instead of herbs and corn; to drink wine instead of water; those and a thousand other things were the blessings of physick, and still the good management of these things, both in health and sickness, are under the directions of the physicians. Now for a fort of melancholy and wilful men, to renounce these comforts,

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emselves for health, but nd envy the his maker; losophy and lave, and to water; those od manageof the phyand destroy ther healths, and all this upon a pretended principle of religion and devotion, seems to me, I confess, great ingratitude to God the author of it.

Indeed I heartily picied F. P. an industrious honest man, after his return from the Indies, who was nothing but skin and bone; and yet by the rules of his order he could not eat any thing that was wholesome and proper for his cure; nothing but a little slimy nasty fish and herbs: and though he took, as he told me, hypocochoana sive times, it had no effect upon him. It is true, I never heard him complain; but

what will not blind prejudice do against all the reason of mankind!

I know fome of these men have been useful to mankind by their studies; but the very same men would have been much more, had they staid with their neighbours, and taught the world by their conversation and example; wisdom, and justice, and innocence, and temperance, which they highly pretend to, are not things to be hid in corners, but to be brought forth to instruct and adorn the age we live in: to abandon the world, and all the conveniences of life and health, is (let them say what they please) the height of chagrin, and not religion.

There were some other public libraries I saw, as that of the Grands Augustins, College Mazarin, College Navarre, and a great many more I did not see for want of

an opportunity; but there is nothing particular I remember about them.

There is such a passion of setting up for libraries, that books are come to most unreasonable rates.

I paid to Anisson thirty-six livres for Nizoleus; twenty livres for the two small quartos of the memoirs of the Academie de Sciences, that is, as I may say, for two years philosophic transaction; for they began those monthly memoirs in imitation of ours, out of the registers of the academy, but did not think sit to continue them above two years.

As to stamps, I had a mind to have bought a complete set of Melans, that incomparable master; but I was asked 200 livres, and twelve excepted, which might amount to as much more; for some of his gravings in octavo done at Rome, they asked me a pistole a-piece; and for the head of Justinianus a louis; which yet is his

master-piece.

I was at an auction of books in the Ruc St. Jaques, where were about forty or fifty people, most abbots and monks. The books were sold with a great deal of trisling and delay as with us, and very dear; for Hispania illustrata Aud. Sciotti, of the Frankfort edition, from twenty livres, at which it was set, they bid up by little and little to thirty six livres; at which it was sold. The next was a catalogue of French books in thin sol, in an old parchment cover by De la Croix de Maine, eight livres. And so

I left them to shift it amongst themselves.

After having faid fo much of the public libraries, I cannot but congratulate their happiness, to have them so well secured from fire; it being one of the perfections of this city to be so built and furnished, as not to have suffered by it these many ages; and, indeed, I cannot see how malice itself could destroy them, for the houses here are all built of stone, walls, stoors, staircases and all, some few rooms excepted; no wainstoot woolen or silk hangings, which cannot be fired without giving notice by the intolerable stench, and the supply of much such. It is well for us in London, that there are very sew public libraries, and those sinal and inconsiderable, and that the great number of books are distributed into a thousand hands, (no country in Europe can compare to us for private libraries) for if they were together in such vast quantities as in Paris, learning would run the hazard of daily suffering. Here with us, methinks, every man that goes to bed, when assept here libraries as including dreading

fome unexpected apotheofis; for all is combuftible about him, and the paint of the deal boards may ferve for incenfe, the quicker to burn them to affect.

In the next place I will account for what I faw, that feemed to me fingular and new

in the improvement of arts, or wanting in our country.

I faw the pottery of St. Cloud, with which I was marvelloufly well pleafed, for I confess I could not diffinguish betwixt the pots made there, and the finest china ware I ever faw. It will, I know, be easily granted me, that the paintings may be better defigned and finished, (as indeed it was) because our men are far better masters in that art than the Chinese; but the glazing came not in the least behind theirs, not for whiteness, nor the smoothness of running without bubbles; again, the inward substance and matter of the pots was to me the very same, hard and firm as marble, and the self same grain, on this side vitrisication. Farther, the transparency of the pots the very same.

I saw them also in the mould, undried, and before the painting and glazing was applied, they were as white as chalk, and melted upon the tongue like raw tobacco-pipe clay, and felt betwint the teeth soft like that, and very little gritty; so that I doubt not,

but they are made of that very clay.

As to the temper of the clay, the man freely owned to me, it was three or four times well beaten and wet, before it was put to work on the wheel; but I believe it must first be melted in fair water, and carefully drawn off, that the heaviest part may first fink; which also may be proper for coarser works.

That it required two, and sometimes three or four fires to bake it, to that height we

faw it in the most finished pots; nay some of them had had 11 fires.

I did not expect to have found it in this perfection, but imagined this might have arrived at the Gomron ware; which is indeed little else but a total vitrification; but I found it far otherwise, and very surprizing, and which I account part of the selicity of

the age to equal, if not furpals, the Chinese in their finest art.

As for the red ware of china, that has been, and is done in England, to a far greater perfection than in China, we having as good materials, viz. the foft hæmatites, and far better artifts in pottery. But in this particular we are beholden to two Dutchmen, brothers, who wrought in Staffordshire, (as I have been told) and were not long since at Hammersmith.

They fold these pots at St. Cloud at excessive rates; and for their ordinary chocolate cups asked crowns a piece. They had arrived at the burning on Gold in neat chequer

works. He had fold some furnitures of tea tables at 400 livres a fet.

There was no moulding or model of China ware, which they had not imitated; and had added many fancies of their own, which had their good effects, and appeared very

beautiful.

Monsieur Morin in conversation told me, that they kept their sand as a sceret to themselves; but this could not be for other purposes than colouring; also he said they used salt of kelp in the composition, and made a thing not unlike frit for glass, to be wrought up with white clay; neither could this be, for I did not taste it in the raw tots.

The ingenuous mafter told me, he had been twenty-five years about the experiment, but had not attained it fully till within this three years. I and other gentlemen brought

over of these pots with us.

The glass-house out of the gate of St. Antoine well deferves seeing; but I did lament the foundery was no longer there, but removed to Cherborne in Normandy for cheapness of suel. It is certainly a most considerable addition to the glass-making. For I

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did lament for cheapg. For I faw faw here one looking-glass foiled and sinished, eighty-eight inches long, and forty-eight broad, and yet but one quarter of an inch thick. This I think could never be effected by the blast of any man; but I suppose to be run or cast upon sand, as lead is; which yet, I confess, the toughness of glass metal makes very much against.

There they are polished; which employs daily fix hundred men, and they hope in a little time to employ one thousand in several galleries. In the lower they grind the coarse glass with a sand-stone, the very same they pave the streets in Paris; of which broken they have great heaps in the courts of the work-houses: this stone is beat to powder, and sifted through a fine tamis. In the upper gallery, where they polish and give the last hand, they work in three rows, and two men at a plate, with ruddle or powdered hæmatites in water.

The glasses are set fast in white putty, upon flat tables of stone, sawed thin for that purpose. The grinding of the edges and borders is very troublesome, and odious for the horrid grating noise it makes, and which cannot be endured to one that is not used to it; and yet by long custom these fellows are so easy with it, that they discourse together as though nothing were. This is done below, and out of the way of the rest.

It is very diverting to see the joint labour of so many men upon one subject. This has made glass for coaches very cheap and common; so that even many of the siacres or hackneys, and all the remises have one large glass before.

Amongst the bioux made at Paris, a great quantity of artificial pearl is to be had, of divers forts; but the best are those which are made of the scales of bleaks. These bleaks they fish in the river Seine at Paris, and sell them to the pearl-makers for that purpose.

Monsieur Favi, at the Pearl d'Angleterre, told me, that he paid for the fish only of the little river Yier of Ville Neuve St. George, four leagues off of Paris, by the year 110 pistoles. This fish in French is called de la Bellette; sometimes in winter he has had thirty hampers of the fish brought him, for the scales only, which he uses in pearlmaking. He fells some strings for a pistole; and they have formerly been sold much dearer. This fort is very neat and latting.

Enquiring of a goldfmith, a great dealer in pearl, about those which were made of the scales of sishes, he told me that it was so; that the scales were beat to powder, and that made into a liquid paste with ising-glass, and cast into the hollow glass beads, and so gave the colour by way of soil from the inside.

I asked him if he had any fresh-water and muscle pearl; and he forthwith shewed me one of twenty-three grains, of a blush colour or faint carnation, perfectly globular; he told me, he valued it at 400l. for that it would mix or match better with the oriental sea pearl, than the bluish ones. Further, he assured me, he had seen pearl of fixty odd grains of fresh-water muscles; and some pear-fashioned. That in Lorrain, and at Sedan, they sished many pearls in the rivers thereabout.

The formerly fo famous a work-house, the Goblins, is miserably fallen to decay; perhaps because the king, having furnished all his palaces, has little more to do for them.

Here I faw the making marble tables, inlaid with all forts of coloured stones.

Also the Atteliers or work-houses of two of the famous sculptors Tuby; in which was a Lacoon copied in white marble admirably; also that other of Quoisivox, in which was, amongst other rare pieces, Castor and Pollux, in white marble, exceedingly beautiful and large; a copy also after the antique.

At Hubin's, the eye-maker, I faw drawers full of all forts of eyes, admirable for the contrivance, to match with great exactness any Iris whatsoever; this being a case where

mif-matching is intolerable.

He himself also formerly wrought in false pearl, and affirmed, that the glass pearls were painted within with a paste made of the scales of the bleak only; which he said was a good trade here to the sishermen, who sold the scales for so much the ounce. These necklaces were formerly sold at great prices, two or three pistoles a-piece.

I faw the platterie, or platter quarries near Montmartre, and the manner of burning of it. It is burnt with open fire fet up against it; the hardest slone is burnt enough in

two or three hours' time.

The top band or bed is very hard like a free-stone: they distinguish the beds by feveral names, i. c. 1. Mutton, 2. Lane, 3. Buzier, 4. Clikar, 5. Großan, 6. Pilliernoir, &c.

That which they call Lane is like Talk, or Scientes transparent, and splits in thin flakes; but there is but little of it, and the beds are small; this feems to be but a fluor to the greater beds of grey-stone. This rock is covered with a kind of grey fand to a great depth; which is not of the nature of plaister.

Though this plaifter burnt is never used (that I could learn) to fertilize either cornground or pasture, as our lime-stone is; yet I see no reason why it may not, it being

full of nitre, if it has lain long in damp caves.

This is not peculiar to Paris only: for I have feen quarries of it near Clifford-Moore

in Yorkshire; where it is called hall-plaister.

I cannot omit the mill-flones, which they grind their wheat with at Paris, as upon the river of the Gobelins, out of the gate St. Bernard, where it falls into the Seine, and all throughout Picardy down to Calais, where I have feen great numbers of them.

These mill-stones are very useful, and so sweet, that not the least grit is ever found in their bread: they are mostly made up of pieces, two, three, or more set together by a cement, and hooped round with iron to keep the pieces sast together. They are made of a kind of honey-comb stone, wrought by the petrisaction of water, or stalactites. The very self-same stone I have seen rocks of on the river banks at Knaresborough, at the dropping-well in Yorkshire; therefore I advise my countrymen to put these excellent stones in practice; for certainly no place stands in more need of it; for the bread in the north of England is intolerably gritty, by reason of those sand or moor stones with which they grind their corn.

These stones are fold at 500 livres a pair; whence they come I forgot to be in-

formed.

In the next place, we will fee how the Parifians eat, drink, and divert themselves.

Of the Food of the Parifians.

The diet of the Parifians confifts chiefly of bread and herbs; it is here as with us, finer and coarfer. But the common bread, or pain de goneffe, which is brought twice a week into Paris from a village fo called, is purely white, and firm, and light, and made altogether with leaven; mostly in three pound loaves, and 3d. a pound. That which is baked in Paris is coarfer and much worfe.

As for the fine manchet, or French bread, as we call it, I cannot much commend it; it is of late, fince the quantity of beer that is brewed in Paris, often fo bitter, that it is not to be caten, and we far exceed them now in this particular in London.

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The grey falt of France (which there at table is altogether in every thing made use of) is incomparably better and more wholesome, than our white salt. This I the rather mention, because it seems not yet to enter fully into the consideration and knowledge of our people; who are nice in this particular to a sault. But I must take leave to tell them, that our salt spoils every thing that is intended to be preserved by it, be it sist of stefn. For whether boiled from the inland salt-pits, or the sea water, it is little less than quicklime, and burns and recses all it touches; so that it is pity to see so much good sist, as is caught upon the northern line of coast, particularly the cod and ling, and herring, now of little value, which were formerly the most esteemed commodities of England. It is certain, there is no making good salt by sierce and vehement boiling, as is usual; but it must be kerned either by the heat of the sun, as in France; or by a sull and over-weighty brine, as at Milthrope in the Washes of Laucashire; for in no other place in England I ever saw it right made; but yet that is not there understood to purpose; for they also boil the brine, which possibly by some slight artisce might be brought to give its salt without stress of fire.

In lent the common people feed much on white kidney beans, and white or pale lentils, of which there are great provisions made in all the markets, and to be had ready boiled. I was well pleafed with this lentil; which is a fort of pulse we have none of in England. There are two forts of white lentils fold here, one small one from Burgundy, by the cut of Briare; and another bigger, as broad again, from Chartres; a third also much larger, is sometimes to be had from Languedoc. Those excepted, our feed shops far exceed theirs, and consequently our gardens, in the pulse-kind for variety; both pea and bean.

The roots differ much from ours. There are here no round turnips, but all long ones and finall; but excellently well tasted, and are of a much greater use, being proper for source also; for which purpose ours are too strong: we have indeed of late got them into England; but our gardeners understand not the managing of them. They sow them here late after midsummer; and at martinmas or sooner, before the frost begin, they dig them up, cut off the tops, and put them into sand in their cellars, where they will keep good till after Easter, nay till Whitsuntide: whereas, if the frost take them, they are quite spoiled; and that piece of ill husbandry makes them to be despised here; having lost their taste, and they soon grow sticky in the ground. The fandy plains of Vaugerard near Paris are famous for this sort of most excellent root. After the same manner they keep their carrots.

After we had been two or three days' journey in France, we found no other turnips, but the navet; and still the nearer Paris the better. These as I said, are small long turnips, not bigger than a knife-hast, and most excellent in soups, and with boiled and stewed mutton. I think it very strange that the seed should so much improve in England, as to produce roots of the same kind six or ten times as big as there; for I make no question but the long turnips, of late only in our markets, are the same.

The potatoe is scarce to be found in their markets, which are so great a relief to the people of England, and very nourishing and wholesome roots; but there are stores of Jerusalem artichokes.

They delight not so much in cabbage as I expected, at least at the season, while we were there, from December to Midsummer. I never saw in all the markets once sprouts, that is, the tender shoots of cabbages; nor in their public gardens any reserves of old stakes. The red cabbage is esteemed here, and the savoy.

But to make amends for this, they abound in vast quantities of large red onions and garlick. And the long and sweet white onion of Languedoc are to be had also here. Also leeks, rockhamboy, and shallots are here in great use.

It has been observed, that the northern people of Europe much delight in cabbage, as the Russes, Poles, Germans, &c. It is certain, the cabbage thrives best in cold countries, and is naturally a northern plant, and the keel is to be found wild upon the maritime rocks, as I have seen it at Whitby, and the cold ripens it, and makes it more

render and palatable.

The fouthern people are pleafed with the onion kind, for the fame reason, for that the great heats meliorate them, but give a rankness to the cabbage. The leeks are here much smaller, than with us; but to recompense this, they are blanched here with more care and art, and are three times as long in the white part, which is by sinking them early so deep in mellow earth. There is no plant of the onion kind so hardy as this, and so proper for the cold mountains, witness the use the Welsh have made of them from all ages; and indeed it is excellent against spitting of blood, and all diseases of the throat and lungs.

Though the lettuce be the great and univerfal fallad, yet I did not find they came near our people, for the largeness and hardness of them; indeed, about a week before we left Paris, the long Roman lettuce filled their markets, which was incomparable,

and I think beyond our Silefian.

April and May the markets were ferved with vast quantities of white beets, an herb rarely used with us, and never that I know of, in that manner for soups. The leaves grow long and large, and are tied up, as we do our Silesian or Roman lettuce to blanch, and then cut by the root. The stalks are very broad and tender, and they only are used, stripped of the green leaves. They cook those stalks in different manners.

The afparagus here are in great plenty, but for the first month they were very bitter and unpleasant; from whence that proceeded I cannot guess; afterwards I did not much

perceive it.

They are fo great lovers of forrel, that I have feen whole acres of it planted in the fields; and they are to be commended for it; for nothing is more wholefome, and it is good to supply the place of lemons, against the scurvy, or any ill habit of the body.

But after all, the French delight in nothing fo much as mulhrooms, of which they have daily, and all the winter long, flore of fresh and new gathered in the markets. This furprised me; nor could I guess, where they had them, till I found they raised the on hot beds in their gardens.

Of forced mufhrooms they have many crops in a year; but for the months of August, September, October, when they naturally grow in the fields, they prepare no arti-

ficial beds.

They make in the fields and gardens out of the bar of Vaugerard (which I faw) long narrow trenches, and fill those trenches with horse dung two or three feet thick, on which they throw up the common earth of the place, and cover the dung with it, like the ridge of a house, high pitched; and over all they put long straw or long horse litter. Out of this earth springs the champignons, after rain; and if rain comes not, they water the beds every day, even in winter.

They are fix days after their fpringing or first appearance, before they pull them up

for the market.

On fome beds they have plenty, on others but few, which demonstrate they come of

feed in the ground; for all the beds are alike.

A gardener told me, he had the other year near an acre of ground ordered in this manner, but he loft a hundred crowns by it; but mostly they turn to as good profit as any thing they can plant.

They destroy their old beds in summer, and dung their grounds with them.

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They prepare their new beds the latter end of August, and have plentiful crops of

mushrooms towards christmas, and all the spring, till after March.

I faw in the markets the beginning of April, fresh gathered moriglios, the first of that kind of mushroom, that I remember ever to have seen: though formerly I had been very curious and inquisitive about this kind of plant, and had distinguished and described thirty species of them growing in England; yet I do not remember ever to have found this species with us; it is blackish, and becomes much blacker when boiled, whence probably it had its name; but there are some few of them that are yellow. They are always of a round pyramidal figure, upon a short thick foot-stalk. The footstalk is smooth, but the outside of the mushroom is all deeply plated and wrinkled like the inside of a beasts maw. The moriglio split in two from top to bottom is all hollow and smooth, foot, stalk, and all. In this hollowness is sometimes contained dangerous insects. The tasteraw, is not ungrateful, and very tender. This mushroom seems to me to be produced of the tree kind.

This fort of mushroom is much esteemed in France, and is mostly gathered in woods at the foot of the oaks. There were some of them as big as turkey eggs. They are found in great quantities in the woods in Champagne, about Reims, and Nostre Dame

e Lieffe

They string them, and dry them; and they feem to me to have a far better relish than

the champignons.

The French fay, there are no bad moriglios; but there are bad mushrooms. At first I was very shy of eating them; but by degrees, and that there was scarce any ragouts without them, I became pleased with them, and sound them very innocent. I am persuaded the harm that comes from eating them, is from the noxious infects and vermin that feed upon them, and creep into them. I have often found them full of such animals. Possibly the garden or forced mushrooms, being that is done in winter, and in the spring, may be much freer of this mischief, at what time insects are dead, or not much stirring, than the wild mushrooms of August.

The city is well ferved with carp, of which there is an incredible quantity spent in the lent. They are not large, and I think are the better for it, but they are very clean of

mud, and well tafted.

They have a particular way of bringing fresh oysters to town, which I never saw with us; to put them up in straw baskets of a peck, suppose, cut from the shell, and without the liquor. They are thus very good for stewing, and all other manner of

There is fuch plenty of macreuse, a fort of sea ducks, in the markets all lent, that I admire, where they got so many; but these are reckoned and esteemed as sish, and therefore they take them with great industry. They have a rank sishy taste, yet for want of other slesh were very welcome. I remember we had at our treat at the king's charge at Versailles, a macreuse pie near two feet diameter, for it was in lent; which being high seasoned, did go down very well with rare burgundy. There is a better argument in Leewenhocke for birds participating something of the nature of sish, though their bleod is hot, than any the council of Trent could think of, and that is, that the globuli of the blood of birds are oval, as those of sishes are; but this will take in all the bird kind; which also in time those gentlemen may think sit to grant.

As for their flesh, mutton, and beef, if they are good in their kind, they come little short of ours, I cannot say they exceed them. But their veal is not to be compared with ours, being red and coarse; and I believe no country in Europe understands the management of that fort of food like the English. This was once proper to Effex;

but now it is well known, that nothing contributes more to the whiteness and tenderness of the flesh of calves, than often bleeding them, and giving them much food of milk and meal, besides sucking the dam. By much bleeding the red cake of the blood is exhausted, and becomes all white serum or chyle. The same effect cramming hath upon poultry, so as the blood is well near all chyle; and the livers of geese, so fed by

force, will become for the fame reason, vastly great and white and delicious.

I cannot but take notice here of a great prejudice the French lie under, in relation to our flesh. It is generally said amongst them, that our meat in England will not make so strong broth as the French by a third part. If they say not so salt and savoury, and strong tasted, I agree with them; and yet the French meat is never the better. For first their meat is mostly leaner and more dry, and (which is all in all in this matter of soups) is long kept before it be spent, which gives it a higher and salter taste; for as meat rots, it becomes more urinous and salt. Now our people, by custom, covet the freshest meat, and cannot endure the least tendency to putrefaction; and we had good reason to do so, because our air is twice as moist as theirs, which does often cause in the keeping of meat a mustiness, which is intolerable to all mankind. Whereas the air of France being so much drier, keeping of meat, not only makes it tender, but improves the taste. So that could we secure our meat, in keeping it from that unsavory quality, it would far outdo the French meat, because much more juicy.

I do not remember I eat of above two forts of flesh, but what we have as good or better in England, and that was of the wild pigs, and the red legged partridge. Of these last I eat at St. Cloud, taken thereabouts; as to bigness, they are much degenerated from those in Languedoc, and less; but far excel the grey partridge in taste.

As for their fruits, our journey was in the worst time of the year, from December to Midsummer, so that we had little save winter fruits; some sew bon chritens we tasted, not much better than ours, but something freer of stones. The Virguleus pears were

admirable, but to our forrow they did not last long after our arrival.

The Kentish pippin, as we call it, was here excellent; but two other forts of apples stock the markets. The winter calvil or queening, which though a tender and soft apple, yet continued good till after Easter. Also the Pome d'Apis, which is served here for shew, more than use; being a small flat apple, very beautiful, very red on one side, and pale or white on the other, and may serve the French ladies at their toilets for a pattern to paint by. However this tender apple was not contemptible after Whitsuntide; and which is its property, it never smells ill, though the ladies keep it (as sometimes they do) about them.

I never met with any thing peculiar in their sweetmeats but a marmalade of orange flowers; which indeed was admirable. It was made with those flowers, the juice of le-

mons, and fine fugar.

The Wines follow, and Water to drink.

The wines about Paris are very small, yet good in their kind; those de Surene are excellent some years; but in all the taverns they have a way to make them into the fashion

of Champagne and Burgundy.

The tax upon wines is now so great, that whereas before the war they drank them at retail at five-pence the quart, they now sell them at 1s. 3d. the quart, and dearer, which has enhanced the rates of all commodities, and workmen's wages; and also has caused many thousand private samilies to lay in wines in their cellars at the cheapest hand, which used to have none before.

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The wines of Burgundy and Champagne are most valued, and indeed not without reason; for they are light and easy upon the stomach, and give little disturbance to the brain, if drawn from the hogshead, or loose bottled after their fashion.

The most esteemed are Vin de Bonne of Burgundy, a red wine; which is dolce pi-

quante in some measure, to me it seemed the very best of wine I met with.

Volne, a pale Champagne, but exceedingly brilk upon the palate. This is faid to grow upon the very borders of Burgundy, and to participate of the excellency of both counties.

There is another fort of wine, called Vin de Rheims, this is also a pale or grey wine;

it is harsh, as all Champagne wines are.

The white wines of value are those of Mascon in Burgundy, Mulso in Champagne, a small and not unpleasant white wine. Chabri is a quick and sharp white wine, well esteemed.

In March I tafted the white wines called Condrieu, and d'Arbois, but found them both in the must, thick and white as our wines use to be, when they first come from the Canaries; very sweet, and yet not without a grateful flavour; they clear towards summer, and abate much of the flavour and sweet taste. Those wines thus in the must are called in the prints Vin des Liquers.

There is a preparation or rather slifling of the white wine in the must, used in Burgundy and elsewhere, which they call Vin Bouru; it gives a sweet taste, and it is foul to the eye; those also are called Vin des Liqueurs. This is only drunk a glass in a morning, as an equivalent to brandy.

Vin de Turene en Anjou of two years old, was one of the best white wines I drank in

Paris.

Gannetin from Dauphine: this is a very pale and thin white wine, very like the Verde of Florence, sweet, and of a very pleasant flavour, especially while it is Des Li-

The red wines of Burgundy, Des quatres feuilles, as they fay, or of four years old, are rare; but they are elteemed much more wholesome, and are permitted to the sick, in some cases to drink of; they are fine, and have a rough but sound taste; not pricked, as I expected. The term Des quatre seuilles is used also to Folne, or any other fort of wine, which is kept any time.

There are also in esteem stronger wines at Paris, as Camp de Perdris.

Cofte Brusse, both red wines from Dauphine, of very good taste, and hot upon the stomach.

De l'Hermitage upon the Rofne.

But the most excellent wines for strength and slavour are the red and white St. Laurence, a town betwixt Toulon and Nice in Provence. This is a most delicious Muscat. These are of those forts of wines, which the Romans called Vinum Passum, that were made of half sun dried grapes: for the grapes (especially the white Muscadine grapes) being usually sooner ripe than the common grapes of the country, called Esperan, viz. the latter end of August, (as I have seen them in the vintage at Vic, Mirabel, and Frontiniac, three towns near the sea in Languedoc, where this sort of wine is made) they twist the bunches of grapes, so breaking the stalks of them, that they receive no longer any nourishment from the vine, but hang down and dry in the then violently hot sun, and are in sew days almost turned into raisins of the sun; hence, from this insolation, the slavour of the grape is exceedingly heightened, and the strength and oiliness, and thick body of the wine is mightily improved. I think the red St. Laurin was the most delicious wine I ever tasted in my life.

Befides thefe, here are also the white wines of Orleans, Bourdeaux, Claret, and those excellent wines from Cahors: also Cabreton, white and red, from about Bayone, strong and delicious wines: and all forts of Spanish wines, as sack, palme, mountaine, malaga, red and white, sherries, and indeed the French are, of late, very desirous to drink of the strongest wines.

Befides wines, there is no feafling without the drinking at the defert all forts of ftrong waters, particularly ratafia's; which is a fort of cherry brandy made with peach

and apricot stones, highly piquant, and of a most agreeable flavour.

The pungent and acrimonious quality of these and such like kernels was not unknown to the ancients, and very possonous to some animals. Dioscorides tells us, a paste made of the kernels of bitter almonds will throw hens into convulsions, and immediately kill them. Birds have but little brain, and so are the stronglier affected with this volatile venom. Not unlike effects it is possible ratasia may have in some tender and more delicate constitutions, and weak and feeble brains, and may be one cause of so many sudden deaths, as have been observed of late.

Vattee is a fort of perfumed strong water from Provence, made (as it is pretended)

of muscat wine distilled with citron pills and orange flowers.

Fenoulliet de l'Isle de Ree is valued much, it is much like our annisced water.

These and many more sorts of strong waters, and strong wines, both of France and Italy and Spain, are wont to be brought in at the latter end of the desert in all great feasts, and they drink freely of them. Which custom is new: when I was formerly in France, I remember nothing of it. But it is the long war that has introduced them; the nobility and gentry suffering much in those tedious campaigns, applied themselves to these liquors to support the difficulties and fatigues of weather and betchings; and at their return to Paris, introduced them to their tables. Sure I am and Parisians, both men and women, are strangely altered in their constitutions and all of body; from lean and slender, they are become fat and corpulent, the women especially: which, in my opinion, can proceed from nothing so much as the daily drinking strong liquors.

Add to these drinks the daily use of cosses with sugar, tea, and chocolate, which now is as much in use in private houses in Paris, as with us in London: and these sugared li-

quors also add considerably to their corpulency.

I must not forget, that amongst the drinks that are in use in Paris, cyder from Normandy is one. The best I drank of that kind, was of the colour of claret, reddish or brown; the apple that it was made of was called Frequins, which is round and yellow, but so better that it is not to be eaten; and yet the cyder that is made of it, is as sweet as any new wine. It keeps many years good, and mends of its colour and taste. It drank it often at a private house of a Norman gentleman, of whose growth it was; otherwise, if I had not been affured to the contrary, I could not have believed, but that it had been mixed with sugar.

There are also very many public coffee-houses, where tea also and chocolate may be had, and all the strong waters and wine above-mentioned, and innumerable ale-houses. I wonder at the great change of this sober nation in this particular; but luxury like a

whirlpool draws into it the extravagances of other people.

It was necessity, and the want of wine, (either naturally, as in a great part of Persia and the Indies; or from their religion, as in Turkey,) that put men upon the invention of those liquors of cossee and tea: chocolate, indeed, was found out by the poor starved Indians, as ale was with us. But what else but a wanton luxury could dispose these people, who abound in excellent wines, the most cordial and generous of all drinks, to ape the necessity of others.

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Mighty things indeed are faid of these drinks, according to the humour and fancy of the drinkers. I rather believe they are permitted by God's providence for the lessening the number of mankind by shortening life, as a fort of silent plague. Those that plead for chocolate, say, it gives them a good stomach, if taken two hours before dinner. Right! who doubts it? you say, you are much more hungry having drank chocolate, than you had been if you had drunk none; that is, your stomach is faint, craving, and feels hollow and empty, and you cannot stay long for your dinner. Things that pass thus soon out of the stomach, I suspect, are little welcome there, and nature makes haste to get shut of them. There are many things of this sort which impose upon us by procuring a false hunger.

The wild Indians, and some of our people, no doubt digest it; but our pampered bodies can make little of it, and it proves to most tender constitutions perfect physic, at least to the stomach, by cleansing that into the guts; but that wears it out, and decays.

It is very remarkable with what greediness the Spaniards drink it, and how often in a day, five times, says Gage, at least. The women drank it in the churches, and the disorder could scarce be remedied. This shews how little it nourishes.

The old Romans did better with their luxury; they took their tea and chocolate after a full meal, and every man was his own cook in that case. Cæsar resolved to be free, and eat and drink heartily, that is, to excess, with Tully; and for this purpose Cicero tells his friend Atticus, that before he lay down to table, Emeticen agebat, which I construe, he prepared for himself his chocolate and tea; something to make a quick riddance of what they eat and drank, some way or other.

There are two forts of water which they drink at Paris; water of the river Seine, which runs through the town; and the water brought in by the aqueduct of Arcueil, which, by the by, is one of the most magnificent buildings in and about Paris, and worth going to see. This noble canal of hewn stone conveys the water fifteen miles to Paris.

The river water is very pernicious to all strangers, not the French excepted, that come from any distance, but not to the natives of Paris, causing looseness, and sometimes dysenteries. I am apt to think the many pends and lakes that are let into it to supply the sluices upon the canal De Briare, are in part the cause of it. But those who are careful of themselves purify it by filling their cisterns with sand, and letting it sink through it; which way clears it, and makes it very cool and palateable.

As for the spring water from the Maison des Eaux, it is wholesome in this respect, and keeps the body firm; but it is very apt to give the stone, which the people of this town are infinitely subject to. An instance of this I had by chance, when coming from seeing the aqueduct of Arcueil, in the very road near the wall of the aqueduct, a great number of earthen pipes, which had served to convey that water to some house, were cast to mend the highways. I observed, that of sour inches diameter the hollow of the pipes were all stopped up to the breadth of a shilling, with a firm stone petrified; so that they were forced to break up the pipes being altogether useless. Now what petrifies in the water-pipes is apt in some weak constitutions to petrify also in the kidneys and bladder. I think I have put this beyond dispute in my treatise De Calculo Humano, and elsewhere.

In the next place we will see how the Parisians divert themselves; which consists chiesly in plays, gaining, walking, or coaching.

The plays here are divided into two houses: one for the operas, and the other for the

I did not fee many operas, not being so good a Frenchman as to understand them when sung. The Opera, called l'Europe Gallante, I was at several times, and it is looked upon as one of the very best. It is extremely fine, and the music and singing admirable: the stage large and magnificent, and well filled with actors: the scenes well suited to the thing, and as quick in the removal of them as can be thought: the dancing exquisite, as being performed by the best masters of that profession in town: the cloathing rich, proper, and with great variety.

It is to be wondered, that these operas are so frequented. There are great numbers of the nobility that come daily to them, and some that can sing them all. And it was one thing, that was troublesome to us strangers, to disturb the box by these voluntary songs of some parts of the opera or other; that the spectators may be said to be

here as much actors, as those employed upon the very stage.

The comedies have another houle in another part of the town; for the operas are

under the roof of Monsieur, and it is part of the Palais Royal.

The disposition of the theatre is much the same; but something less. And here the stage itself is to be let; where for strangers, the places are most commodious to hear and see.

I heard many tragedics, but without gust for want of language: but after them, the little plays were very diverting to me, particularly those of Moliere, Vendange de Suresne, Pourcegnac, Crispin Modecin, le Medecin malgre luy, le Malade Imagi-

naire, &c.

In this all agree, that though Moliere's plays have less of intrigue in them; yet his characters of persons are incomparable, so true and just, that nothing can be more. And for this reason, so many of them are only of two or three acts; for without an intrigue well laid, the characters would have sailed him, in which was his excellency.

However, this is now fo much become a custom on the French slage; that you ever have one of these little pieces tacked to the tragedy, that you may please yourself ac-

cording to your appetite.

It is said Molicre died suddenly in acting the Malade Imaginaire: which is a good instance of his well personating the play he made, and how he could really put himsels into any passion he had in his head. Also of the great danger strong and vehement passions may cause in weak constitutions, such as joy and fear; which history tells us, have killed many very suddenly. He is reported to have said, going off the stage, Messieurs, J'ay joué le Malade Imaginaire; mais je suis veritablement fort Malade; and he died within two hours after. This account of Moliere is not in his life by Perault, but it is true: and he yet has blamed him for his folly, in persecuting the art of phy-

fic, not the men, in divers of his plays.

Moliere fent for Dr. M———, a physician in Paris of great esteem and worth, and now in London, a refugé. Dr. M——— sent him word, he would come to him, upon two conditions; the one, that he should answer him only to such questions as he stood ask him, and not otherwise discourse him; the other, that he should oblige himself to take the molicines he should prescribe for him. But Moliere sinding the doctor too hard for him, and not easily to be duped, refused them. His business, it seems, was to make a comical scene in exposing one of the most learned men of the prosession, as he had done the quacks. If this was his intention, as in all probability it was, Moliere had as much malice as wit; which is only to be used to correct the viciousness and folly of men pretending to knowledge, and not the arts themselves.

This I must needs say, that obscenity and immorality are not at all upon the French stage, no more than in the civil conversation of people of fashion and good breeding.

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One afternoon in Lent, I was to hear a fermon at La Charite, preached by an abbot, a very young man. His text was about the angel's descent into the pool of Bethesda, and troubling the waters. I am not so good a Frenchman as to understand all he said, but he had many good arguments about the necessity of grace, and the means to attain it. I was strangely surprised at the vehemency of his action, which to me appeared altogether comical, and like the actors upon the stage, which I had seen a few days before: besides, his expressions seemed to be in too familiar a stile. I always took a fermon to the people to require a grave and ornate kind of eloquence, and not verba quotidiana, with a certain dignity of action; but it is possible this way here best suits with the customs and manners of the people; who are all motion, even when they say the easiest and most intelligible things.

Gaming is a perpetual diversion here, if not one of the debauches of the town: but games of mere hazard are strictly forbid upon severe sines to the master of the house, as well private as public, where such playing shall be discovered. This was done upon the account of the officers in the army; who, during the winter used to lose the money, which was given them to make their recruits, and renew their equipages in the spring. And indeed, such quick games, as basiet, hazard, &c. where fortune in a manner is all in all, are great temptations to ruin, by the sudden passions they are apt to raise in the players. Whereas games, where skill, and cunning, and much thought are employed, as well as luck, give a man time to cool, and recover his wits, if at any time great loss shall have dismounted his reason: for he must quickly come to himself again, or forfeit his skill and reputation in conducting the game, as well as husbanding his money.

We were in Paris at the time of the fair of St. Germain. It lasts fix weeks at least; the place where it is kept well bespeaks its antiquity; for it is a very pit or hole, in the middle of the Faubou.g, and belongs to the great abbey of that name. You descend into it on all sides, and in some places above twelve steps; so that the city is raised above it six or eight soot.

The building is a very barn, or frame of wood, tiled over; confifting of many long allies, crofling one another, the floor of the allies unpaved, and of earth, and as uneven as may be: which makes it very uneafy to walk in, were it not the vast croud of people which keep you up. But all this bespeaks its antiquity, and the rudeness of the first ages of Paris, which is a foil to its politeness in all things else now.

The fair confifts of most toy-shops, and Bartholomew-fair ware; also siance and pictures, joiner's work, linen and woollen manufactures; many of the great ribband shops remove out of the Palais hither; no books; many shops of confectioners, where the ladies are commodiously treated.

The great rendozvous is at night, after the play and opera are done; and raffling for all things vendible is the great diversion; no shop wanting two or three raffling boards. Monsieur, the Dauphin, and other princes of the blood come, at least once in the fair-time to grace it.

Here are also coffee-shops, where that and all forts of strong liquors above mentioned are fold.

Knavery here is in perfection as with us; as dexterous cut-purses and pick-pockets. A pick-pocket came into the fair at night, extremely well clad, with four lacqueys with good liveries attending him: he was caught in the fact, and more swords were drawn in his desence than against him; but yet he was taken, and delivered into the hands of justice, which is here sudden and no jest.

I was furprized at the impudence of a booth, which put out the pictures of fome Indian beafts with hard names; and of four that were painted, I found but two, and those very ordinary ones, viz. a leopard, and a racoun. I asked the fellow, why he deceived the people, and whether he did not fear cudgelling in the end: he answered with a singular considence, that it was the painter's fault; that he had given the racoun to paint to two masters, but both had mistaken the beast; but however, (he said) though the pictures were not well designed, they did nevertheless serve to grace the booth and bring him custom.

I saw here a semale elephant betwixt eight and nine soot high, very lean and ill kept. Nothing could be more docile, than this poor creature. I observed, she bent the joints of her legs very nimbly in making her salutes to the company: also that the nails of her fore-toes were large, and almost five inches long. This was from the continent, having the ears entire. I had seen one about thirteen years ago in London much less, from the island of Ceylon, of another species with scallopt ears, and the

tail with two rows of large, thick, and stiff black hairs.

Coaching in vifits is the great and daily bufiness of people of quality: but in the evenings, the Cours de la Reyne is much frequented, and a great rendezvous of people of the best fashion. The place indeed is very commodious and pleasant, being three alleys set with high trees of a great length, all along the bank of the river Scine, inclosed at each end with noble gates; and in the middle a very large circle to turn in. The middle alley holds four lines of coaches at least, and each fide alley two a piece: these eight lines of coaches may, when full, supposing them to contain near eighty coaches a-piece, amount to about fix or seven hundred. On the field side, joining close to the alleys of the coaches, there are several acres of meanow planted with trees, well grown, into narrow alleys in quincunx order, to walk in the grass, if any have a mind to light; and this must needs be very agreeable in the heats of summer, which we staid not to enjoy.

One thing this Cours is short of ours in Hyde-park, for if full, you cannot in an hour see the company twice you have a mind to see, and you are confined to your line; and oftentimes, the princes of the blood coming in, and driving at pleasure,

make a strange stop and embarras.

Besides, if the weather has been rainy, there is no driving in it, it is so miry and ill

gravelled.

Those, who have a mind to drive further out of town for the air, have woods, one to the west, and another to the east, most convenient. I mean, the sois de Bologne, and the Bois de Vincennes; this last is very opaque and pleasance. There are some

ancient Roman statues in the first court of this house.

But for the castle in the Bois de Bologne, called Madrid, it was built by Francis the First, and it is altogether moresque, in imitation of one in Spain: with at least two rows of covered galleries running quite round, on the outside the four faces of the house; which sure in a very hot country are greatly refreshing and delightful: and this is said to be built or purpose for a desence against a much hotter climate, than where it stands; which that king had no mind to visit a second time.

But let us return to Paris. Towards eight or nine o'clock in June most of them return from the Cours, and land at the garden gate of the Tuilleries, where they walk in the cool of the evening. This garden is of the best ordinance, and now in its full beauty, so that Mons. Le Nostre has seen it in its infancy, for it is all of his invention, and he enjoys his labours in perfection. Certainly the moving furniture of it at this

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t of them they walk in its full invention, f it at this time time of the evening, is one of the noblest fights, that can be seen. The night I came away from Paris, a lady of quality, Madam M—when I took my leave of her, asked me, what I had seen in Paris that most pleased me; I answered her civilly, as I ought to do; but she would not take my compliment, but urged me for answer: I told her, (since she would have it so) that I just then came from seeing what pleased me best; that was, the middle walk of the Tuilleries in June, betwixt eight and nine at night. I did not think that there was in the world a more agreeable place, than that alley at that hour, and that time of the year.

And now we are got into the gardens of Paris I shall give you a short taste of all of them of note, at least of such as I saw.

This of the Tuilleries is vastly great, has shaded terraces on two sides, one along the river Seine, planted with trees, very diverting, with great parterres in the middle, and large fountains of water, which constantly play; one end is the front of that magnificent palace the Louvre; the other is low, and for prospects, open to the fields. The rest is disposed into alleys, and grass-plots, and copies of wood; with a great number of seats upon down in all parts, for the accommodation of the weary.

In the Tuilleries there is one thing, which I much liked, and that was an amphitheatre of cut hedges, with the stage, pits, and seats, and the scenes leading into the stage very pretty; from all sides close alleys leading into it.

Nothing can be more pleasant, than this garden, where in the groves of wood the latter end of March, black-birds and throstles, and nightingales sing most sweetly all the morning, and that as it were within the city; for no birding is suffered here near this city, and the fields round the town, are all, every where, full of partridges, and hares, and other game.

The garden of the palace of Luxenbourg is also vastly great, and has something of champatre in it, like St. James's-park; it is also filled with people daily of good quality; but because the hard winters have destroyed many of the walks, by killing the pole hedges, it is not so frequented, as formerly; yet it hath its sountains and parterres, and some well shaded alleys; and for air, I prefer it before the Tuilleries, because it is seated upon a high ground next the fields, in the Fauxbourg of St. Germains.

As to the King's physic garden, it is a very great piece of ground, well furnished with plants, and open also to walk in, to all people of note. There is great variety of ground in it, 2s woods, ponds, meadows, mounts, besides a vast level, by which it is sitted for the reception and growth of most forts of plants.

I first saw it in March with Dr. Tournesort, and Mr. Breman, a very understanding and painful gardener. The green-houses well stored with tender exotics, and the parterres with simples; though but few of them then to be seen: yet by the trees and shrubs, and some plants, which did not lose their heads, I could well judge of the surniture.

Dr. Tournefort told me, that he shewed a hundred plants every lesson, and he had in the summer thirty lessons, which made three thousand plants; besides the very early and late plants, which he reckoned could not be less than a thousand more.

I took particular notice of these plants in the green-houses at that time: Jasminum Aforicum store also viridarii Regis Lustanici.

Marum Cortufii, which had been potted thirty years. Caryophyllus Creticus arborescens.

Smilax fructu nigro.

Iris bulbofa flore luteo.

Symphytum minus Boraginis flore. Fraxinus Americana florida. Stæchas folio ferrato Bauhini.

This garden is endowed by the king and duke of Orleans, and has 2000l. a year iterling rents belonging to it, whereof 500l is given to the chief physician who overlooks all, and the rest to the botanic reader, Dr. Tournefort, and under-gardeners, with lodgings for all.

Mr. Breman told me, he had the beginning of April made an end of fowing his

hot-beds, and had put into the ground two thousand species of feed.

From the mount in the king's garden, on the other fide of the river, upon the declivity of a high ridge of hills, I had a fair view of the palace or country-house of Father la Chaise, the King's confessor; it is very finely feated against the fouth fun, and well wooded on both fides. A fit feat for a contemplative person.

The garden of the Palais Royal, confidering it is in the middle of the town, is very large, has two or three great basins with their jet d'eaux, but not well kept; nor hath any thing elegant in it, but the good order and disposition of its shady walks and par-

terres. It is ever full of good company.

The garden of the arfenal is much larger, and finer kept; has the prospects of the fields, and lies open to the ramparts. It is also much frequented for the beauty of its walks.

There are also divers convents, which have spacious and well kept gardens, which are always open and public to people of any note; as the Carthusians, which is vast and champestre. The Celestians, very sine and large; that of St. Genevieve, which is great, and very well kept; and the terrace for length and breadth is incomparable; extremely well planted with horse-chesnuts; having also on the south-side upon the terrace, three or sour square copies of the same trees; which have a marvellous effect for shade in summer.

These private gardens I saw in Paris.

D'Aumont. Its green-house opened into the dining-room: the orange trees feemed to have suffered, and had their leaves withered; for the room was too broad by half.

The treillage, at the upper end of the garden, was very well adorned with gilding, and had in the middle a pavilion, in which was an old Roman statue of a young man, very well preserved. The sashion of the toga here was so evident, that it might well pass for a conviction to those, who have thought it to be a plaid, or a garment open before like a cloak.

This treillage is performed with that variety of ornaments, that it refembles file-green work, and is large. The painting of these works in green is not well performed in all places alike; it is either too yellow, or of a sad dirty green, or sea green; sew have hit the right grass green colour. To do it well, it is to be primed in yellow, and then to be covered with Vert de Montagne or Lapis Armeniacus; of which last colour we have plenty in England, about Malham in Craven, in Yorkshire.

This is the great benefit of treillage in cities, that befides the beauty of it to the eye,

it takes away and hides the ill prospect of the neighbouring houses.

Here are very many fig-trees well grown in fquare boxes; and parterres well flocked with flowers; each fort by themselves; as tulips a part; junkills a part; anemonies a-part: ranunculuses a-part: dasfadils a part.

Puissart. This garden is very neat, and open at the end to the Tuilleries. The treillage walk or arbour at the upper end is very fine, feventy paces long, and eight

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broad, hath three pavilions all open at the top. It is all of iron painted green, and cost fifteen thousand livres.

The gardener was an artift; and had fome plants in cases in good order, not to be feen elsewhere, as large rosemary bushes, jacobæa maritima, marum syriacum, &c.

The walls were well covered with fruit trees; he had not cut his peaches; when I asked him the reason, he told me, it was his way, not to cut them till after slowering, which he found by experience to improve the fruit; whereas he said, the early cutting stocked them, and impaired the fruit.

The orangery here was the most beautiful room, for the bigness, I had seen, paved with marble, and neatly wainscotted with oak, from the top to the bottom, after our English manner, I make no doubt it served to eat in insummer, when cleared of trees.

Bouvillier. I found not any thing more remarkable here, than the treillage at the

Cormartin. The treillage in this garden was most admirable in the fashion of a triumphal arch; half of it was an aviary, with a fountain in it, well stored with birds.

Here were large iron vafas upon pedestals, the first I had feen of the kind, painted over of a copper colour.

Les Diguieres. This is the only house in Paris, I saw kept, in all the parts of it, with the most exact cleanliness and neatness, gardens and all.

In the garden there were several pieces of treillage; that at the upper end was very noble, and cost ten thousand livres; another piece of it cost fire thousand. And I saw a small one of iron leaves painted green, the only one of the kind. Here also were great vasas of treillage upon pedestals.

The fountains in this garden were very curious, though small, with proper orna-

ments, which had a marvellous effect, when the spouts played off.

The first court was set about with cases of extraordinary large laurus tinus, and in the gardens there were some cut into square pyramids.

A person of quality came into the garden to me, who with great civility conducted

me up to the apartments.

In the apartment of the duchefs, which was all of her own contrivance, and had an air of flate and agreeablenefs beyond any thing I had feen, I observed hanging down in the middle of the bed-chamber the finest chrystal candlestick in France: the pieces were all bought fingle by her, and the contrivance and setting them together was her own: it cost twelve thousand crowns.

But before I left the garden, in an obscure parterre I saw the tomb of a cat, viz. a black cat couchant upon a white marble cushion, fringed with gold, and gold tassels hanging at the corners upon a square black marble pedestal. On one of the sides of that marble is writ in letters of gold:

Cy gist Menine la plus amiable & la Plus aimee de toutes les chattes.

On the other fide.

Cy gist une chatte jolie: Sa maistresse, qui n' aimoit rien, L'aime jusques à la folie Pour quoy dire! on le voit bien. This is not the first instance of this kind of folly; I have seen something of it in Eng.

land, and have read much more in history.

If you blame me for transcribing this epitaph, I will submit; but I could never have forgiven myself, if I had transcribed the many fine inscriptions I met with at Paris, though in most elegant and truly Roman words; others in pure court French. You

may read them in the Description of Paris.

De Lorge. We had the good fortune here to find the marshal himself walking in his garden; who entertained us with great civility, viz. the dean of Winchester and myfelf. This garden was not finished, and the house itself was but building; but it is one of the finest in Paris, and has the advantage of a most free and extended prospect of the fields and Montmartre: at the end of the garden rifes a terrace equal with the

That which was in this house and garden very commodious and noble, was that betwixt the two courts the coaches drive through a stately hall upon pillars, and might land on either fide, up a step or two, which lead to the staircases and other apartments; and then in the furthest court, which is only divided from the garden by high palifadoes of iron, they turn, and tak up the company again; fo that no weather offends them. Which is much wanting here; and more with us at London, where we most

need it.

This hall is open upon arches to the garden, and the stair-case itself is so contrived,

that you enjoy a full prospect of the garden and Montmartre in descending.

The marshal very obligingly shewed us his own apartment; for all the rest of the house was full of workmen; and in his bed-chamber his little red damask field-bed, which he lay in now, and which also served him, when he commanded upon the

He shewed us his great fash windows; how easily they might be lifted up and down, and flood at any height; which contrivance of pullics he faid he had out of England, by a small model brought on purpose from thence: there being nothing of this posses in

windows in France before.

He also had us into a set of small elosets or rooms, after the English fashion, very prettily furnished, neatly kept, and retired, with his English keys to them, as he told us; and from thence we descended a back pair of stairs. We did all we could to hinder him from feeing us take coach: he fent his page after us, to invite us fome day to eat with him.

Hostel Pelletier. The garden here was very neat, with a treillage at the end, after the manner of a triumphal arch, but not very high, nor well painted; yet its beauty and finishings differ much from any I had feen before. In the two niches were placed great iron vafas or flower-pots, right before the middle of a bafin of water, which was fet a playing for our entertainment, which is a compliment the French are willing to oblige strangers with.

In the orangery were very large trees, and two pair of myrtles in cases, cut rlobewife, the best and biggest I had seen: large bushes in pots of Marum Syriacum. Great store of tulips, anemonies, ranunculuses, and other flowers in beds, in the parterre, each

by themselves.

Also anemonies and ranunculuses in little earthen pots, as with us; but in very light mould. Great and very fair laurus tinuses in cases. And, which was singular, along one of the garden walls were planted Abel trees, whose tops were disposed and spread by an iron treillage into arches at equal distances, which had a very good effect.

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The best piece of treillage of iron bars and wood intermixed, is that in the garden of feu Mons Louvois. And this is one of the neatest gardens in Paris. The whole upper end is adorned with a noble treillage after the manner of a triumphal arch; it cost a great sum of money. There are sour statues disposed on pedestals under it, which have a good effect; these are antique, rarely good. One of the first empresses, a Diana, an Apollo, &c. Here the walks are hard gravel, but not rolled. On one side of the treillage is a large aviary well stored with birds.

The walls of the green-house are matted; and large pans of iron hang down in the middle of the house, at equal distances, to every window one; they have pullies to let them down, or run them up to what height they please. This way may very well correct the moistness of the air, which the breath of the plants cause, and sufficiently warm them. Hot beds puff up plants; yet a warm air over their heads may be as useful to refresh and nourish them in winter.

The last private garden I saw was that of Mr. Furnier, a few days before we lest the town, nothing could be prettier. At the upper end a noble treillage, two great vasas of iron, painted of a brass colour, and gilt.

Here I faw an apple tree potted, as the figs and oranges used to be; it was the white queenen, (or calvil d'este,) the stem of the bigness only of my thumb, full of fruit the first of June.

Many pots of Sedum Pyramidale, now a most elegant ornament. But nothing is here so pompous as double red and striped stocks; which they multiply with care, and their pains are justly rewarded; with a thousand other things, which my short turn in the garden would not give me leave to remember.

There are great numbers of these private gardens in Paris, which deserve seeing; but the season of the year not much favouring our curiosity, we did not much enquire after

Hitherto I have given a short account of what I saw mostly in Paris, as to the people, abroad and at home; the country round about it, is full of populous and neat towns, and many palaces of the king and princes of the blood, which are not to be equalled with any thing we have in England. But I am unwilling to lead you any further, it being much out of my way and humour to go to court; but because it was my fortune to be at Versailles, St. Cloud, Marli, and Meudon, I will venture to say something of each.

These four royal palaces and their gardens possess a barren and hilly country, as big as most counties in England; two of them, Meudon and St. Cloud, have the prospect of Paris under them; but the former hath it much more open and fully than the

This district may be said to be less Berceau des Roys, or the nursery of kings; for the chief of the blood royal are lodged here, viz. the king, Monseigneur the dauphin, and the three grandsons, the dukes of Burgundy, d'Anjou, and Berry, Monsieur or the king's brother, and his son the duke of Chartres, and Mademoiselle his daughter. All these are, or will be (as it is easy to guess by the growth and proportions of the youngest) very large and well shaped beautiful people. The other branch of the blood royal, of the house of Bourbon, as the prince of Conde, the duke of Bourbon, and the princesses his daughters, the prince of Conti, are all of less stature, but very well shaped and handsome.

The duke du Maine and the conte de Toulouse I did not see; but the princess dowager of Conti often, who is without dispute one of the most graceful and handsomest

womer

women in France, and methinks exceedingly like the king her father, as I rem ember him in his full beauty, when I first faw him in the year 65.

These four palaces are all entirely built and furnished in this king's time, and all the gardens, and what belongs to them.

St. Cloud is the nearest Paris, and the castle is very magnificent, and most commodi-The great faloon and the gallery are extremely well painted.

The gardens are of a vall extent, twelve or fifteen miles in compals.

The natural woods on the fouth-west side the house, are well husbanded, and cut into fmall and bigger alleys to fave the trees; which they have had fo great a care of, they have kept them flanding not only in the alleys, but in the very steps of stone which are made to descend into the alleys.

In the other parts of the garden the alleys are mostly treble, and well shaded, run out in vast lengths of several miles, every where basins and jets d'eaux; but there is a cascade, which I saw several times play, and is said to be the most beautiful and best furnished with water of any in France. In the middle of the large basin amongst the woods, I faw a jet d'eau, which threw up a fpout of water ninety fect high, and did discharge itself with that force, that it made a mist and coolness in the air a great compass round about, and gave now and then cracks like the going off of a pistol; such force the vent of wind in the pipes had.

The pipes which convey the water are composed of iron cylinders three feet long, fome ten, fome twenty inches diameter, till they divide; and then they are of

I was once kindly invited to St. Cloud by Madame's phyfician, Monfieur Arlot, who fent his coach for me to Paris, and nobly treated me; before dinner he carried me in his coach (for this privilege is granted him) into all parts, and round the gardens; which were well furnished with alleys and walks, adorned with cypress, pines, and firs, cut into pyramids; and water-works every where playing in abundance, particularly the gerbes d'eau were very fine, that is, great and thick, feeming streams of water thrown up into the air. This is done to hufband the water by a great number of finall pipes like a fheaf, to reprefent a folid pillar of water.

Monfieur has added, and taken into this vaft garden, a new acquifition of a mountainous plain, which overlooks all the country round; and will no doubt, when it is modelled by that admirable contriver Monf, le Nostre, make one of the most delightful places in the world.

From the balustrade in the upper garden, the river Scine, and a vast plain bounded

by Paris, is to be feen, and makes a most delightful prospect.

Thefe vast riding gardens are unknown to us in England, and fe promener a cheval, ou en earrosse, is not English. We cannot afford to lose so much country as those gardens take up. I faw in fome of the quarters not only partridges and hares plentifully, but, which I wondered at, five biches or female red-deer feeding.

The orangery belonging to this garden is very large and magnificent, paved with marble, and was filled with vaft trees in cases, not to be brought in or out without proper engines, but in it there was nothing but those orange trees, oleanders, and laurus tinuses. He goes out of the end of his apartment, that is, the noble painted gallery is continued upon a level with the orangery, which leads directly into an afcending walk of a vaft length; and also fronts or flanks all along the parterre or flower garden, where they are disposed of in summer. At this treat I cat of a preserve or wet sweatmeat, made of orange flowers, incomparable; and the lady obliged me with the manner of making it.

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Though there were high and proper walls for fruit in many parts of the garden, yet nothing of that nature was to be found, only ordinary and infructiferous greens were fastened to the treillage, which are the linings of niost walls here. In the garden are many arbours of treillage, pavilions, &c. of iron mixed with wood, painted green, with honey-suckles running up them. These gardens have above one hundred and fisty people always employed to keep them in order; which stands in 40,000 livres a year.

Another time I dined with the captain of the castle, who shewed me all the apartments at leisure. I eat here of the red-legged partridge taken here upon these hills; they are much less here than in Languedoc, but yet far better tasted than the grey partridges taken in the same place. This was the beginning of April, and we drank our wine in ice, which I was not aware of, till I found the bad effect of it in my throat; and the next day much more; but it went off again without any great trouble. There is no animal that abuses itself in meat and drink as man does; we daily drink excessive hot and excessive cold; in other creatures it is instinct that guides them, but as for us we neither act by instinct nor reason; but betwixt both loosely, and therefore oftener are catched to our own destruction.

At the end of the apartments of Monsieur, are a fine set of closets: the first you enter is furnished with great variety of rock chrystals, cups, agates upon small stands, and the sides of the rooms are lined with large panes of looking-glass from top to the bottom, with Japana varish and paintings of equal breadth intermixt; which had a marvellous pretty effect. The other room had in it a vast quantity of bijou, and many of very gas at price; but the Siam pagods, and other things from thence, were very odd.

There was also one very small Roman statue of white marble, not ten inches high, which cost 20,000 crowns; one leg of it was a little injured. It seemed a piece of admirable workmanship. It was a boy, who had in the skirt of his tunic a litter of puppies,

and the bitch lying at his feet and looking up.

I cannot fay much of Meudon, because I was notwithin the house or park; it will require yet some time to bring it to that perfection which is designed; for that Monseigneur has been but lately possessed it. The road from Paris to it is yet unpaved; but the situation is admirable; and the esplanade before the house is like a vast bassion, and commands the full view of all the champagne, and Paris under it. The gardens are very great, but I only coasted them and the house.

As to the palace of Verfailles, (which is yet some miles further within the mounsinous country, not unlike Blackheath or Tunbridge) it is without dispute the most mat discent of any in Europe. Yet what of it was first built, and much admired thirty years, is now no longer relished. However this king intends to rebuild it where it is faulty. It is, as I said, placed in a very ungrateful soil, without earth proper for herbs, or water; but he hath brought that to it in abundance, and made the ground

too to be fruitful.

There are books writ to describe this famous palace in every part; to which I refer the reader. The way to it is new, and in some places the mountains are cut down forty feet, so that now you enjoy it a mile in prospect before you come to it; it opens and closes in three courts, the more remotest, narrower and narrower; which is a fault; and is, as I was told, designed to be pulled down, and made into one noble large square court, of the same order of building as that magnificent front is which looks upon the gardens. The gilded tiles and roof have a marvellous effect in prospect. The esplanade towards the gardens and parterres are the noblest things that can be seen, vastly great, with

with a very large basin of water in the middle, low walled round with white marble, on which are placed a great number of incomparable brazen vasas, and large brass figures couchant, of the best masters in sculpture; it were endless to tell all the furniture of these gardens, of marble statues, and vasas of brass and marble, the multitude of fountains, and those wide canals like seas running in a straight line from the bottom of the gardens, as far as the eye can reach.

In a word, these gardens are a country laid out into alleys and walks, groves of trees, canals and fountains, and every where adorned with ancient and modern statues and

vasas innumerable.

May the 17th, the water were ordered to play for the diversion of the English gentlemen. The playing of the spouts of water, thrown up into the air, is here diversified after a thousand fashions. The theatre des eaux, and the triumphal arch are the most famous pieces. But in the groves of the lest hand, you have Æsop's fables, in so many pieces of water-works, here and there in winding alleys. This might be faid to be done in usum delphini. It is pretty to see the owl washed by all the birds; the monkey hugging her young one, till it spouts out water with a full throat, and open mouth, &c.

The orangery, or winter confervatory for tubs of winter greens, is what corresponds to the greatness of the rest. It is a stupendous half square of under-ground vaults, like the naves of so many churches put together, of exquisite workmanship in hewn stone, well lighted and open to the south sun. It contains three thousand casas of greens; whereof near two thousand are orange trees, and many hundreds of them are as big as generally they naturally grow in the earth. Hence amongst them are

some, which are said to be in cases from the time of Francis the First.

They did not think fitting to put them out this year till the latter end of May; and indeed their oleanders, laurels, lentifcuses, and most other greens, had suffered

miserably.

In the pottageric (which is part of these gardens, and hath its magnissence also) there are seven hundred cases of sigs, besides wall fruit of all other kinds. By all the

gardens in and about Paris, I perceived they are very fond of this fruit.

I observed in small siance or painted pots a vast number of the narrow leaved Laurus Alexandrina; also Thlapsi store albo, Leucoii solio, latisolium; also the Sedum Pyramidale. These are not yet ornaments in our gardens, that I know of, nor a great many other plants, which I observed in slower there; and at my return gave a catalogue of them to Mr. London that he neight send for them, if he pleased. The plants I observed were vivace or perennial.

The 15th of May my lord ambaffador went to Marli, where the waters played for

his diversion.

I must needs say it is one of the pleasantest places I ever saw, or, I believe, is in Europe; it is seated in the bosom or upper end of a high valley, in the midst of and surrounded with woody hills. The valley is closed at the upper end, and gently descends forwards by degrees, and opens wider and wider, and gives you the prospect

of a vast plain country, and the river Seine running through it.

Marli is a square house raised upon steps, and terraced on all sides: the four fronts all alike; and the doors opening into the garden all the same. In the middle an octagon-hall, running up domewise, in which all the side rooms meet; which are all rooms of state. Above are twelve lodgings, with a narrow gallery leading to them. In the lower rooms at Marli, particularly in the octagon-salon, are extraordinary large, (six feet at least,) marble, or rather agate tables; to the best of which they may be compared.

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four fronts middle an hich are all ng to them. inary large, hey may be compared. compared. They are veined like wood, and of an amber colour: these are the admirable effect of petrifaction. Of this very stone I have seen great blocks in the banks of the dropping well at Knaresborough in Yorkshire. I forgot to ask here whence they had them

In one of the ground rooms was a femicircular gilt bar or rail, which took off and inclosed the upper end of the room: within the bar was disposed several rows of porcellain or fine china on gilt shelps. Here at the corners, within the bar, opened two small doors, whence the ambassador and his retinue were plentifully served with chocolate, tea, and cosses, in a most obliging manner. Many of the nobility and gentlemen of France were ordered to attend him there.

The two fide fronts of the house have in prospect great alleys cut through the woods, and paved for the more commodious coming down to the house; which is descending

On each fide the valley, close under the woods, run along in a line, fix square pavillions or smaller palaces of the very same figure and beauty with the Mother House; at equal, but large distances, as five numbered paces. The fix on the right hand the garden are for the men; the other fix on the left are for the women of quality whom the king weekly appoints, upon a lift given, to attend him, and enjoy the pleasure of this retirement, as I may say, from court. Before those pavillions, and betwixt them, are the finest alleys and walks imaginable, with fountains, and all the decorations of treillage and slowers. Such a shew of not ordinary tulips in broad beds, of one thousand paces long, every where, all this vast garden over, in their full beauty, was a most surprising sight. I could not forbear to say to the Duke de Villeroy, who was pleased much to accompany me in this walk, that sure all the gardens in France had contributed to this prosusion of slowers; which he took so well, that the Marishal his father, afterwards detached himself to single me out, and very obligingly embraced me, and saluted me with a kifs, and followed it with very kind and familiar discourse.

The cascade coming down from the brow of the hill, on that front of the house which respects and stands near it, was new and singular, and of the king's own invention, as indeed, all the garden besides. From the house it appeared a broad river, quietly gliding down the hill; but when I went near it, I found it composed of sifty-two large square and shallow basins of water, disposed at right angles, and not declining, but falling over one into another.

In the garden were many fountains, nobly adorned, and had variety of water pipes playing up into the air in them. Here are some gerbes of a singular fashion, with a circle of a great number of large pipes, within at least two feet diameter; which made the appearance of a vast pillar of water. There was one jet d'eau in the bottom of the garden, which we were told threw up water 120 feet high; for of 50 and more sountains, we saw but those on the side alleys to play; most of the great basins in the middle were mending and dry. To furnish all this water, there is a most slupendous machine, which was invented by two Liegois This machine forces the water up 560 feet, from the river Scine, to the top of the tower or aqueduct. It throws up 5700 inches of water by almost continued rustations or quick pulses. It is wrought by 14 wheels of 32 feet diameter each, set in the river, and carried about night and day by its stream.

This invention is the fame with what is practifed in the deep coal-pits about Leeds in Lower-Germany; fo that to fee the engines, and a great number of iron cylinders or water-pipes, lying bare above ground, and running up a vast mountain, is to imagine a deep coal-mine turned wrongside outward.

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The tree most in use here, was the small-leaved horne-beam; which serves for arcades, berceaus; and also standards with globular heads: at the foot of which they have planted little sprigs of the same of a foot and half high; and also in some places in like manner, whole areas sull of them; which cut smooth and level make the sinest green hedges I ever saw; some of these low hedges were twelve seet broad, and in a barren and dry climate supply very artiscially the use of grass-plots.

It is certainly very commendable in the king, who pleafes himself in planting and pruning the trees with his own hand, to make use of no other trees but what the neighbouring woods afford; fo that it is admirable to see whole alleys of pole hedges of great height, and long rows of goodly standard globes of eighteen months growth only.

If this great king, as he grows older, should take a fancy to place himself in a warmer climate, (and he has a good one of his own, as any under the fun, in Languedoc) as he does his winter greens in proper houses; (and methinks, this instance alone should be sufficient, to convince him of the necessity there is to cherish decaying nature, and that a naturally warm air is a better sence than cloaths or sire) what wonders would not his purse and passion for planting do there.

The next woods in Languedoc would afford laurel, and myrtles for pole hedges; lentificus's and phylarea's in as great abundance, as hazel or thorn with us. Also jasmins for arbors and treillage; ciftus's and rosemary, and a hundred other sweet simelling woody thrubs grow every where in the fields, to furnish the pots and vala.

There the tall cypres's grow of themselves, to 60 and 100 feet high, like so many towers; and also tonsil at pleasure, for the most beautiful pole hedges imaginable. The very fields are most excellent, and well furnished parternes of flowers, and are naturally pottageries, or kitchen gardens. The vineyards are very orchards; and all the most tender fruits with us are there standards; as sigs, and grapes of all forts, apricots, peaches, nectarines, jujubs, &c. The delicious and large cherries; and whatever has been said to the contrary, pippins and pears there are in far greater perfection than with us, or in any parts of France else, besides that happy climate.

What was it for so great a king to make a walk from Marli to Montpellier, or (if I might choose) to Pescenas, seated in the bosom of a well watered valley, inclosed with perfumed hills. It is not half so far as betwixt Lahor and Agria, two seats the Mogulhas thus joined. This would eternise his name, above any palace he has yet built, and bring to himself much health in his old age. The gardene of the Hesperides, and the labyrinths of Cande, so famous in history, would be nothing to such wonderful performances, as his abilities and hippy genius is capable of. For besides the natural product of the country, the climate also is capable of producing, and nourishing with small art and expence, whatever plants both the Indies can assort. Whereas, at this end of the world, we drudge in vain; and force a pleasure which is dead and gone before we can well enjoy it: we have indeed a kind of shew of the summer delights, but all on a sudden we drop into a long and tedious winter again. But we love the places we are used to, or born ir. Man, to say it truth, is a very animal, as any quadruped of them all; and most of his actions are resolvable into instinct, notwithstanding the principles which custom and education have superinduced.

The pleafure of feeing is fearce to be tired; but yet after two or three hours walk in fo fine and great a garden, I was forced to make a halt behind the company, and glad to retire to the gilt bureau in the palace again, to refresh myself, where I found some of the king's officers waiting, and some other gentlemen of the household, who had made several campaigns in Flanders. I had now more a mind to a glass of cool Burgundy, than the infignisheaut Indian liquors; which though I knew was against the

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fanctity of the place, yet nothing was denied me a stranger. Here being alone, we fell into discourse of the English, and of their king. They willingly allowed the English to be truly brave; and now in peace they sound also, that they were as civil, and well bred, as brave; that no nation had given the king and his court that satisfaction that the English had done; being curious and inquisitive after all good things; they did see a great difference between them and other nations; they did not stare, and carelessly run about, or hold up their heads, and despise what they saw; but had a true relish of every good thing, and made a good judgment of what was commendable; and therefore the king took pleasure to have them shewed every thing. This discourse of the English they concluded with a great encomium of King William.

As for their own king they were much in the praise of him, as one may easily imagine: that his retirement hither was mostly for his health; that he left Verfailles every Tuesday night, and came hither with a select company of lords and ladies; that he returned not till Saturday night, and fometimes intermitted ten or fourteen days; fo that he fpent half of his time here in repose; that he was the most affable prince in the world, and never out of humour, of a pleafant and open convertation where it pleafed him; eafy of access, and never fent any one away discontented; the most bountiful master in the world, of which there were ten thouland instances; nothing of merit in any kind, but he most readily and cheerfully rewarded, ever, of late years at least, preferring the virtuous; fo on the other hand, he never spared the rebellious and obstinate; that the government of his people could not be carried on with lefs feverity and strictness; nor the taxes which were necessary to support it, raised; that he delighted not in blood or perfecution; but that the art of government had different rules, according to the climate and nature of the people, where and upon whom it was to be put in practice. His great wildom appeared in nothing more, than in preferving himself amidit his troops, his converts, his court and numerous family, all in a manner fit for the throne. The greatness of his mind, and magnificence, in his buildings. This was the fum of the discourfe these gentlemen were pleased to entertain me with.

At my return to Paris I was to fee the pipinerie, or royal nursery of plants, in the Fauxbourg of St. Honorie; where I met the master or comptroller of it, Monsieur

Morley, one of the ushers of the bed-chamber to the king.

He, like the rest of the French nation, was civil to me; and shewed me a written almanac of flowering plants for the whole year, which he said was an original; it might indeed, be so in French, but we have had almanacs for fruit and flowers, for every month in the year, printed divers times, for above this 30 years, thanks to Mr. Evelyn.

This ground inclosed with high walls is vallly big, as it ought to be, to supply the kings' gardens; here are several acres of young pines, cypresse vues, &c. also vast beds of stock July slowers, of all sorts of bulbes, as tulips, dasfodills. Supply the content of the conten

He further told me, that the furnishing the Trianon (a peculiar house of pleasure, with its parternes at the end of the gardens at Versailles) with flower pots in season, every sourteen days in the summer, took up no less than ninety-two thousand pots from hence.

Also from hence he could plant and furnish in fourteen days time, any new garden the king should cause to be made.

Here besides the plants common to us and them, I saw a multitude of pots well conditioned of stechas citrina folio latiusculo.

Alfo a fort of cotila, which bore large fun flowers or marigolds, propagated by flips,

called by him Amaroutre.

In this ground are feveral houses to lodge the tender winter greens; amongst the rest there is one very large, which I may call the infirmary of sick orange trees; which coming from Genoa by sea, are here deposited in a peculiar green house; and there were in it, and then actually carrying out into the air, (it was the 22d of May our style) 300 trees in cases as thick as a man's thigh; but after ten, and some after seventeer years cherishing, had not yet got heads decent enough to be removed, and to appear at court, they being often forced to lop both tops and root, that they might recover them.

After all, it must be said, that this magnificence, and the number of these palaces and gardens, are the best and most commendable effect of arbitrary government. If these expences were not in time of peace, what would be this king's riches, and the extreme poverty of the people? for it is said, that every three years, some say much oftener, he has all the wealth of the nation in his cossers; so that there is a necessity he should have as extravagant and incredible ways of expending it, that it may have its due circulation

amongst the people.

But when this vast wealth and power is turned to the disturbance and destruction of mankind, it is terrible; and yet it hath its use too: we and all Europe have been taught, by the industry of this great king, mighty improvements in war; so that Europe has been these twelve years an over-match for the Turk; and we for France by the continuation of the war. The forty millions sterling which the late war hath, and will cost England, before all is paid, was well bestowed, if it had been for no other end, than to teach us the full use and practice of war; and in that point to equal us with our neighbours.

It was observed by Polybius of the Romans, that wherever they met with an enemy, that had better weapons than themselves, they changed with them; this docility gained them the empire of the world. On the contrary, those late eastern tyrants have despited learning, and consequently must submit to the more refined valour of Europe. I say, the effects of arbitrary government, both in war and peace, are superndous.

The Roman Emperors, because absolute lords of the people, far out-did the commonwealth in magnificent buildings, both public and private. Augustus left Rome a marble city, which he found of brick only. Nero burnt it and rebuilt it, and a golden palace for himself, like a city. Vespalian and Titus built amphitheatres and baths far surpassing any buildings now upon the sace of the earth; in one of which 120,000 persons might see and hear, and be seated with more convenience than upon our stages. Adrian viited most parts of the world, on purpose to build cities. Trajan had his name on every wall, which he either restored or built. His pillar, and bridge over the Danube are stupendous monuments of his expences.

The I gyptian kings built them menuments, wherein they flaved their whole nation, and which are the wonders of the world to this day, the obelifks I mean, and pyramids.

The Afiatic Emperors of China and Japan have outdone the Europeans in this kind of immenfe buildings, as the wall in China, the cut rivers, and fluices, and bridges there.

In Japan the buildings are no less incredibly great.

Of this abfolute dominion we have examples even in those two American empires, of Mexico and Peru. In this last, mere nature forced impossibilities without art, tools, or science. The Cusco fortress was a master-piece, where stones were laid upon stones, which no engine of ours could carry, or raise up; or tools better polish, and fit together; where a country near as big as all Europe, was turned into a garden, and cultivated better than Verfailles, and water-works brought to play and overspread some

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t empires, of rt, tools, or non Itones, and fit togei, and cultifpread fome thousands thousands of miles, where it never rains. This was the only arbitrary government well applied to the good of mankind, I ever met with in history; where roads and store-houses of food and raiment were the guides, and numbered the miles for the travellers, and the whole empire turned into an useful and intelligible map.

As for the Turks, Persians, and Mogul, the whole empire is intended folely for the

pleasure of one man; and here even tyranny itself is foully abused.

Yet I should be loth to see them in any kind exemplified in England. In our happy island we see such palaces and gardens, as are for the health and ease of man only; and what they want in magnificence, they have in neatness. There is not such a thing as a gravel walk in or about Paris, nor a roller of any fort; when it rains the Tuilleries are shut up, and one calks in dirt some days after. The grass plots, or, as they call them bowling greens, are as ill kept, they clip them and beat them with flat beaters as they do their walks. This puts me in mind of what I saw in the garden of the Prince of Condé in Paris; where there was a grassy circle of about sour feet wide, round one of the fountains in the middle of the garden; to keep this down, and make it of a siner turf, the gardener had tethered two black lambs, and two white kids, at equal distances, which sed upon it. Whatever the effect was, I thought it looked pretty enough; and the little animals were as ornamental, as the grass.

All the pair tings and prints made of late years of the king make him look very old; which in my mind is not fo; for he is plump in the face, and is well coloured, and feems healthy, and eats and drinks heartily, which I faw him do; this is certainly an injury to him, and possibly in complaifance to the Dauphin, or worse. This is the meanest compliment I have known the French guilty of towards their prince; for there are every where expressions of another nature all over Paris. See the Description of Paris, where they are collected and at large. The Romans under Augustus, (the first absolute matter of that people, as this king is of the French had upon this subject from the people a much since thought, and wish, De nostris annis tibi Jupiter argeat annos.

However it be, the king feems not to like Verfailles fo well as he did; and has an opinion, that the air is not fo good, as elfewhere; he leaves it (as I faid) every week on Tuefday night, and goes most by to Marli, or Meudon, and fometimes to the Trianon, which is but at the end of the gardens, and returns not to Verfailles till Saturday night: besides his extraordinary removes to Fontainblean. I wonder no body puts him in mind of that paradise of France, Languedoc, where he may be with ease in four days, at the rate that kings use to travel. I had this discourse at table with one of the introducteurs to the ambasilador at Verfailles; but he could not bear it, it being against the interest of all settled courts to remove, though it were never so good for their prince's health. I remember but of one instance in history, and that was Aurenzebe the Great Mogul, who in his middle age fell desperately tick, and long languished at Lahor; but took advice of some body about him, and went in his own kingdom a progress of one thousand miles to Casimire, a very mild and temperate climate, where he recovered, and lived to above a hundred years old, and is yet alive for ought I know.

The king now feldom or n. ver plays, but contents himfelf fometimes with looking on; but he hath formerly been engaged, and has loft great fums. Monfieur S. rooked him of near a million of livres at ballet, by putting false cards and banished for it fower years.

Before I give over we uliness of gardens and country, I will add some remarks,

which feemed particular and new to me.

In the kitchen gardens at and ocar Paris, are a great number of aprice thandards; but kept low; very full of blodoms, and good bearers.

They

They make a conferve of the fruit; which I like above any of their wet tweetmeats; it was made by cutting them into thin flices, and throwing away the ftone; which our people fpure fometimes, and leave in the flesh intire, and spoils the sweetmeat, and fets it a fretting.

They employ the stones in brandy, and distil them in spirits.

In the beginning of April we had store of asparagus, but they were often so bitter, to me at least, that there was little pleasure in cating them. It is certain they were much worse, than ours in England in that particular. Which puts me in mind of the wild asparagus, which grows pleastfully with us on the sea coast in Lincolnshire. This is very fair to the eye; yet no culture of our gase us, by often transplanting, could make it eatable. I suce the asparagus recovers something of its natural force in a warmer climate; for the sweet table is as it were a mark of degeneration. If they would have them good here, they amb renew the seed from England or Holland.

The wild afparagus of Languedoc is another plant called Corruda.

I procured out of Langueroc a fort of Pracox vine, about fifty plants, by the Clermont carrier; the which I gave to Mr. London, our king's gardener, for my lord ambaffador. This grap is white, very thin tkinned, and clear as a drop of water; it is usually ripe at St. John's-mass in John's Montpellier, where it is called Des Unies.

There are also in this town Pracox grapes, as Dr. Turnefort told me in the physic

garden; but whether the fame with the Unies I know not.

I have faid they delight much in figs in pots or cases; but here is another way of preserving the fig trees set in the ground, which is much practised; and that is to lap, and tie them up in long straw, from top to bottom; for which they are placed at a little distance from the walls. This also is practised to such trees as stand in the middle

of the parterre; they did not open them till mid-May.

The exotic trees, which the Parifians molt delight in, for their garden walks, and for the shade in their courts, are the Maroniers, or horse chesnuts, of which they have inpumerable; for the fruit ripens very well here, and comes up of itself. Also the Acacia Rovini, which is very common, and makes pretty alleys, and which they lop and turn to pollards, with good essect; but of these last the leaves are late in putting forth, it being the 15th of May our style, when these trees were scarce green.

May 25. When I took my leave of Monsieur Valliant, I found him in his flower garden; he shewed me a parcel of ranunculuses, in full flower, which he had received but two years before from Constantinople; they were very beautiful and rare, at least such as I had never seen; as pure white, white and green, white and striped with carnation,

pure carnation or rofe-colour, thriped carnation, &c.

Of these he had sold some a pistole a root, and hoped in a year or two to be more plentifully stocked with them, that he might afford them cheaper. I did see afterwards a few of them in the royal pipinerie, and also in the seedsman's garden, Monsleur Le

Febre: but both came from him.

I also took notice of his iron cradles or hoops over his beds, which were removeable, and to be made higher and lower, according to the height and nature of the flowers they were defigned to cover. This, me thought, was far beyond all the inventions of wooden covers, and might with fail-cloths and mats well ferve for a fort of portable green house, to the lets tender plants.

I faw Le Febre's ill ver-garden, May 9. The tulips were in their prime; 'indeed, he had a very large to plentiful collection. The pan-are or flriped tulips were many, and of great to the state of the

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rime; 'ndeed, d tulips were ad numerous they expected yearly yearly fome striped ones, which if perfect, that is, striped in all the fix leaves, would but doubtfully continue, and perhaps return to their former state the next year; but if type laboured, or did not finish the stripings of all the fix leaves the first year, there were better hopes of their continuing in that state.

Though I had no mind to defcend into the stone pits, which are like our mines, well-fashion, and the stones wound up with great wheels, to husband the soil over them; yet I went to Vanre, three miles from the town, which is a ridge of hills that runs along to the observatory. Here the quarries are open on the side of the hill, as with us. In those I observed two or three layers of stone, two or three foot thick, mostly made up of shells, or stones in the fashion of shells. Amongst these shell-stones the most remarkable for bigness was a certain smooth and long buccinum, tapering with very many spires. I measured one whose sirst spire was eight inches diameter, the full length I could not so well come at; yet holding proportion with those of the kind which lay slat, and which we could see in their full length, it must have been a foot long at least. There is no buccinum in any of our seas a quarter so big. Here are many of this species. Also other large turbinated stones, which come near some of the West India kinds of music shells, of which genus yet there are none in the European seas.

These layers of stone mixed with shell-sigured bodies, are at certain distances in the rock, and other rocks void of shells interposed.

Fanciful men may think what they pleafe of this matter; fure I am, until the history of nature, and more particularly that of minerals and fossils is better looked into, and more accurately distinguished, all reasoning is in vain. It is to be observed, where men are most in the dark, there impudence reigns most, as upon this subject: they are not content fairly to dissent, but to insult every body else. In like manner upon the subject of mineral waters; how many scriblers have there been without any knowledge of sossils?

I know not whether it be worth the noting, but it flews the humour of the French, that I faw in fome country towns near Paris, the church wall near the top had a two feet broad mourning lift, which compaffed the whole church like a girdle, and on this was at certain diffarects, painted the arms of the lord of the manor, who was dead.

I shall conclude what I have to say further, with the air of Paris, and the state of health

The air of Paris is drier than that of England, notwithstanding the greatest part of the city is placed in a dirty miry level; the muddy banks of the river Seine witness this; also the old Latin name of Paris, Lucia; but some of them are unwilling to derive it from Lutum, though there are several other towns in France, formerly more considerable than it, of that very name; but from the Greek original, as Telen, Telensa, which in that language signify black dirt. We have an undoubted experiment of the different temper of the air in our Philosophic Transactions; where it is demonstrated, that there salls twice as much rain in England, as at Paris; registers of both having carefully been kept, for so many years, both here and in France.

From this quantity of rain with us, our fields are much greener; and it was a pleafing furprife to me at my return, failing up the river of Thames, to fee our green fields and paflures on every fide; but we pay dearly for it, in agues and coughs, and rheumatic diffempers.

The winter was very rude and tierce, as was ever known in the memory of man; the cold winds very piercing; and the common people walk the fireets all in muffs, and

multitudes had little brass kettles of small-coal kindled, hanging on their arms; and yet

you should scarce hear any one cough.

I never faw a mist at Paris in the fix months I staid there, but one; though a very broad river runs through the middle of the city, nor any very strong winds; but this may be accidental, and the temper of some one year by chance.

We were very fenfible by the 20th of February our flyle, though the nights were cold, and the white froils great in the mornings, that the fun at noon had a much

fironger force and heat, than with us, at that time of the year.

Another argument of the dryness of the air at Paris, we had from the alteration of health; fuch as were thick breathed, and coughed and fpit much, soon recovered; and the infensible perspiration of the skin was so clear and free, that the kidneys had little to do; so that it was observed by most, that though we drank pretty freely of the thin wines of Champagne and Burgundy, yet they never broke our sleep to get shut of them; and that very little passed that way in the morning.

Lastly, a fign of the dryness and great goodness of the air of Paris is, the vast number of iron bars all over the city; which yet are mostly intire, and the least decayed with ruft, I ever saw in any place; whereas ours in London are all in a few years all over

rufty, and miferably eaten.

We were fufficiently alarmed at our first coming to Paris, with the unwholesomeness of the river water, and cautioned against drinking it; and yet it was almost impossible to avoid the bad effects of it; for within the month two thirds of the family fell into sluxes, some into dysenteries, and some very ill of it. The French that come out of other remote countries suffer as well as the strangers. We were told boiling it was a good remody to prevent its griping quality; but that is a mere notion, for we know mineral waters boiled have a stronger effer, and this quality can proceed from nothing less.

The well waters here are much worfe than the river waters, because more mineral. But our fasety was in the water brought from the Maifen des Eaux, where the aqueduct

of Arcueil empties itself to serve the great palaces and city fountains.

The difease of the dysentery being one of the most common in Paris, the most celebrated drug for its cure is now the ipecacuanha; though I never once made use of it to any of our people, but cured them all as soon, and as well with our usual remedies. Indeed they have great need of it here, for the poorer fort of people, through ill diet, this water, and herbs, are very subject to it; this root is faid to cure it with as much certainty, and as readily, as the jesuits powder an ague; of this most of the physicians and apothecaries agreed. They give it in powder from ten grains to forty, which is the largest dose. It most commonly vomits, and sometimes purges, but both gently. It is fold here from twenty to fifty crowns a pound. They divide it into four forts, according to its goodness.

Another popular difease here is the stone; and there are men well practised in the cutting for it. There are also two hospitals, where great numbers are ent yearly, as La Charite, and Hotel-Dieu, in both of these there are wired chests sull of slones cut from human bodies; and in the chest of La Charite is one, which exceeds all belief; it was cut from a monk, who died in the very operation; it is as big as a child's head. It is but the model or pattern of the slone which is kept in the chest; which has this inserip-

tion on it:

Figure & groffeur de la pierre, pelant 51 ounces, qui font trois livres trois ounces, qui a ché tirée dans cet Hoffital au mois de Juin 1090, & que l'on conferve dans le Couvent de la Charité.

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But that which I shall here most insist upon is the new way, practised by Pere Jaques, a monk. About the 20th of April he cut in the Hotel-Dieu ten in less than an hour's time: the third day after, all were hearty and without pain but one.

He cuts both by the grand and little appareil; in both he boldly thrusts in a broad lancet or stilletto into the middle of the muscle of the thigh near the anus, till he joins the catheter or staff, or the stone betwixt his singers; then he widens the incision of the bladder in proportion to the stone with a silver oval hoop; if that will not do, he thrusts in his four singers and tears it wider; then with the duck's bill he draws it out.

I faw him cut a fecond time in the Hostel-Dieu; and he performed it upon nine perfons in three quarters of an hour, very dexterously. He seemed to venture at all; and put me into some disorder with the cruelty of the operation; and a stouter Englishman than myself. However I visited them all in their beds, and sound them more amazed than in pain.

Pere Jaques cut also his way in the other hospital La Charitè, much about the same time, eleven at twice. Here Monsieur Marshal, the best of the surgeons for this operation now in Paris, harangued against him before the governors, who coldly answered, they would be determined by the event, which way was best.

Atque bue ratione Fæminis Calculi omnium facillime exciduntur; nempe fealpello intra

Of those cut in La Charite one died; and being dissected, it was found he had his bladder pierced in four or five places; also the musculus plous fadly mangled; also the left vesiculæ seminales cut.

Notwithstanding this, if this method was well executed by a skilful hand, it might be

of good use to mankind.

This way of cutting for the stone, puts me in mind of what I formerly wrote and published in the Phil. Transactions, about cutting above the os pubis, in the fund of the bladder.

Also of that experiment of cutting for the stone of an alderman of Doncaster in the gluteus major, he was twice at in the same place, and out-lived both. I saw the first stone, which was very large, and in some measure transparent, crystal like. This experiment is printed in Dr. Willies's Scarborough Spaw, sourteen years ago at least, and is a fair hint for this new method.

Since my return I had a letter from Mr. Probie, a very learned and industrious young gentleman, who was with me to see the operation, at part relating to this matter I shall here transcribe. Indeed, I mightily longed for an account of this matter, the success of which I came away too soon to learn any thing for certain.

Paris, Aug. 2, 93
"PERE JAQUE's reputation mightily flackens, out of forty-five that he cut at the hostel-dieu, but fixteen of them survive; and of nineteen in the Charitè, but eleven. He has practifed recombine hospital at Lyons, but, it is said, with worse success than at Paris. I am sensible he has got abundance of enemies, which makes me very often question, what I may hear said of him. Dr. Fagon, the king's physician, told Dr. Turnsort, when he went to present his book to him, that he had cut seven at Versailles, and that six of them are alive, and as well as if never cut. The person that died was so distempered, that he was not expected to live, and it was thought, if he had not been cut, he had not lived so long: the surgeons have a great mind to cry down the man, though they practise his method. For Marshal has since cut after Pere Jaque's manner, only with this difference, that Marshal's catheter was cannulated. Le Rue, the second surgeon of the Charity hospital cut after the old manner, at the vol. Iv.

fame time when Marshal cut Pere Jaque's way, but had not so good success as Marshal had; for all that Marshal cut are alive and very well, whereas the other lost one or two of his number; besides, those that lived were not so soon cured, no, not by a month or six weeks." Thus far Mr. Probie.

The pox here is the great business of the town; a disease which in some measure hath contributed to the ruin of physic here, as in London. This secret service hath introduced little contemptible animals of all sorts into business, and hath given them occasion to insult families, after they had once the knowledge of these missortunes. And it is for this reason the quacks here, as with us, do thrive vastly into great riches beyond any of the physicians, by treating privately these calamities.

It was a pleafant diversion to me to read upon the walls every where about the town, but more particularly in the Fauxbourgh of St. Germain, the quacks' bills printed in

great uncial letters.

De par l'ordre du Roy.

Remede infallible & commode pour la gerison des maladies secretes sans garder la chambre.

Another, Par permission de Roy.

Manniere tres aisee & tres sure pour guerir sans incommodite, & sans que persone en appercoive, les maladies veneriennes, &c.

Another, Par privilege du Roy.

L'Antivenerien de medicin Indien, pour toutes les maladies veneriennes, telles quelles puissent estre, sans aucun retour, & sans garder la chambre. Il est tres commode & le plus agreable de monde.

Another.

Remede affure de Sieur de la Brune privilege du loy, &c. sans qu'on soit contraint de garder la chambre, &c.

By these bills it is evident, there is yet a certain modesty and decorum lest in the concealing this disease, even amongst the French: time would be cured secretly, and as though nothing were doing; which those wretches highly promise. But this is that handle which gives those mean people an occasion to insult their reputation, and injure them in their health for ever.

Every body here puts their helping hand, and meddles with the cure of this difease, as apothecaries, barbers, women, and monks; yet I did not find by all the inquiry I could make, that they had other remedies than we. Nay, there is something practifed in the cure of this distemper in England, which they at Paris know nothing of; but this old verse forbids me to say any thing further:

Artem pudere proloqui, quam factites.

The apothecaries' shops are neat enough, if they were but as well stored with medicine; and some are very finely adorned, and have an air of greatness, as that of Monsieur Geofferie, who has been provost des merchands, in the Rue Buttebur, where he entry to the Basse Cour is a port-cochier, with vasas of copper in the niches of the windows; within are rooms adorned with huge vasas and mortars of brass, as well for sight, as for use. The drugs and compositions are kept in cabinets disposed round the room. Also laboratories backwards in great perfection and neatness. I must needs commend this gentleman for his civility towards me; and for his care in educating his

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red with medithat of Montebur, where niches of the 's, as well for fed round the I must needs educating his fon, fon, who came over with Count Tallard, a most hopeful and learned young man; whom our society at Gresham-college, at my request, honoured with admitting him fellow, according to his deferts.

I had the opportunity of conversing with many of the physicians in this city; who all agree in the low condition and disesteem it was in, from the boundless considence and intruding of quacks, women, and monks. Monsieur d'Achin, the late chief physician, has been ill thought on for taking money, and giving protection to these fort of cattle; but the chief physician now, monsieur Fagon, is a man of great ho-

nour and learning, and very defirous to promote the art.

It is here as with us, fome practife out of mere vanity, others to make a penny any way to get bread. The cause of all this is, I think, the great considence people have of their own skill, an arrogance without thinking. To pass a judgment upon cures, and the good and evil practice of physic, without doubt is one of the nicest things, even to men of the faculty; but a jury, that is, the very ordinary men in England, are suffered now to undertake the question; when I may truly say, that I have ever found, no disparagement to them, the most learned men of the nation, the most mistaken in these matters; and can it be otherwise in so conjectural an art, when we ourselves scarce know, when we have done ill or well.

Another cause of the low esteem of physic here, are the sorry sees that are given to physicians; which makes that science not worth the application and study. The king indeed is very liberal, as in all things else, in his pensions to his chief physician, and

gives his children good preferments.

Also Mr. Burdelot, who is also well pensioned, and lodged at Versailles, physician to the duches of Burgundy, a learned man; he is perfectly well skilled in the history of physic; and we may shortly (as he told me) expect from him, another supplement to Vauder Linden, of many thousand volumes, which have escaped that catalogue, and are not accounted for.

Monsieur, and the dauphin, and all the princes of the blood, have their domestic physicians; some of whom I knew, as Monsieur Arlot, Monsieur Minot, to the Prince of Conti, of my acquaintance formerly at Montpelier. The two Morins very

learned men; also Monsieur Grimodet, &c.

Others have the practice of nunneries and convents, which gives them bread; others have parishes; and some such shifts they make; but all is wrong with them,

and very little encouragement given to the faculty.

April 14. The Prince of Conti fent his gentleman and coach at midnight to fetch me to his fon, and to bring with me the late King Charles's drops to give him. This was a very hafty call. I told the messenger, I was the prince's very humble servant; but for any drops or other medicines I had brought nothing at all with me, and had used only such as I found in their shops, for all the occasions I had had to use any. I defired he would tell him, that I was ready to confult with his physicians upon his son's fickness, if he pleased to command me, but for coming upon any other account I defired to be excused; but I heard no more of the matter, and the young prince died. By this it is evident, there is as false a notion of physic in this country, as with us; and that it is here also thought a knack, more than a science or method; and little chimical toys, the bijous of quacks, are mightily in request. This herefy hath posfeffed the most thinking, as well as the ignorant part of mankind; and for this we are beholden to the late vain expositors of nature, who have mightily inveighed against and undervalued the ancient Greek physicians, in whose works only this art is to be learnt, unless fingle persons could live over as many ages, as those wife men did. Men Men are apt to preferibe to their phytician, before he can possibly tell what he shall in his judgment think stong to give; it is well if this was in negatives only; but they are prejudiced by the impertinence of the age, and our men, who ought to converse with the patient and his relations with prognostics only, which are the honour of physic; and not play the philosopher by fancial and precarious interpretations of the natures of diseases and medicines, to gain a fort of credit with the ignorant; and such certainly are all those that have not studied physic thoroughly, and in earnest.

Those drops were defired of me by other persons of quality, as the Princess d'Espinov, the Duchels of Boullon, Monficur Sefac, &c. and having bethought myfelf how my master, the late King Charles, had communicated them to me, and shewed me very obligingly the process himself, by carrying me alone with him into his elaboratory at Whitehall, while it was diffilling: also Mr. Chevins another time shewed me the materials for the drops in his apartment newly brought in, in great quantity, that is, raw filk: I caused the drops to be made here. Also I put Dr. Turnefort upon making of them; which he did in perfection, by diffilling the finest raw filk he could get. For my part I was furprifed at the experiment often repeated, having never tried it before. One yound of raw filk yielded an incredible quantity of volatile falt, and in proportion the finest spirit I ever tasked; and that which recommends it is, that it is when rectified, of a far more pleafant finell, than that which comes from fal armoniac or hartfhorne; and the falt refined and cohobated with any well feented chemical oil, makes the king's falt, as it is used to be called. This my lord ambassador gave me leave to prefent in his name; and the doctor now supplies these which want. Silk, indeed is nothing elfe, but a dry jelly from the infect kind, and therefore very cordial and stomachic no doubt. The Arabians were wife, and knowing in the materia medica, to have put it in their Alkermes.

This must be said for the honour of this king, that he has ever given great encouragements for useful discoveries in all kinds, and particularly in physic. It is well known he bought the secret of the jesuit's powder, and made it public; as he lately did

that of the hypococana.

To conclude, it was my good fortune here to have a bundle of original papers of Sir Theodore Mayerne, and his friends, who corresponded with him, presented me by the Reverend Dr. Wickar, Dean of Winchester, who marrying his kinswoman found them amongst other writings of law matters. I have not yet had the leisure to peruse them, but those who know the worth of that great man, will desire they may be made public; which if they are, they shall come forth intire, and not disguised, as some of his other papers have been, to the great detriment of physic; and I think it is the first example of this nature, that posthumous papers were ever abbreviated, and made what they never were before, an intire and full publication.

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TRAVELS DURING THE YEARS 1787, 1788, AND 1789,
UNDERTAKEN MORE PARTICULARLY WITH A VIEW OF ASCERTAINING THE CULTIVATION, WEALTH, RESOURCES, AND NATIONAL PROSPERITY OF THE KINGDOM OF
FRANCE,

BY ARTHUR YOUNG, ESQ. F. R. S.

PREFACE.

IT is a question whether modern history has any thing more curious to offer to the attention of the politician, than the progress and rivalship of the French and English empires, from the ministry of Colbert to the revolution in France. In the course of those 130 years, both have figured with a degree of splendour that has attracted the admiration of mankind.

In proportion to the power, the wealth, and the refources of these nations, is the interest which the world in general takes in the maxims of political economy by which they have been governed. To examine how far the system of that economy has influenced agriculture, manufactures, commerce, and public folicity, is certainly an inquiry of no slight importance; and so many books have been composed on the theory of these, that the public can hardly think that time misemployed which attempts to give the practice.

The furvey which I made, some years past, of the agriculture of England and Ireland (the minutes of which I published under the title of Tours), was such a step towards understanding the state of our husbandry as I shall not presume to characterise; there are but few of the European nations that do not read these Tours in their own language; and notwithstanding all their faults and deficiencies, it has been often regretted, that no fimilar description of Frie could be resorted to either by the farmer or the politician. Indeed it could not be 'mented, that this vast kingdom, which has so much figured in hiftory, were lit main another century unknown, with respect to those circumstances that are the good of my inquiries. An hundred and thirty years have paffed, including one of e and confpicuous reigns upon record, in which the French power at 🦠 cent much overstrained, were formidable to thou refources founded on the permanent basis Europe. How far were deof an enlightened agriculture to low that on the more infecure support of manufactures and commerce? how far have wealth and power and exterior fplendour, from whatever cause they may have arisen, reslected back upon the people the prosperity they implied? very curious inquiries; yet refolved infufficiently by those whose political reveries are from by their fire-fides, or caught flying as they are-whirled through Europe in postchaifes. A man who is not practically acquainted with agriculture, knows not how to make those inquiries; he scarcely knows how to discriminate the circumstances productive of unfery, from those which generate the felicity of a people; an affertion that will not appear paradoxical, to those who have attended closely to these subjects. At the same time, the mere agriculturift, who makes such journies, sees little or nothing of the connection between the practice in the fields, and the refources of the empire; of combinations that take place between operations apparently unimportant, and the general interest of the slate; combinations so curious, as to convert, in some cases, well cultivated fields into scenes of misery, and accuracy of husbandry into the parent of national weakness. These are subjects that never will be understood from the speculations of the mere farmer, or the mere politician; they demand a mixture of both; and the investigation of a mind free from prejudice, particularly national prejudice; from the love of system, and of the vain theories that are to be found in the closes of speculators alone. God forbid that I should be guilty of the vanity of supposing myself thus endowed! I know too well the contrary; and have no other pretension to undertake so arduous a work, than that of having reported the agriculture of England with some little success. Twenty year's experience, since that attempt, may make me hope to be not less qualified for similar exertions at present.

The clouds that for four or five years past, have indicated a change in the political sky of the French hemisphere, and which have since gathered of for singular a storm, have rendered it more interesting to know what France was previously to any change. It would indeed have been matter of astonishment, if monarchy had risen, and had set in that region, without the kingdom having had any examination professedly agricultural.

The candid reader will not expect, from the registers of a traveller, that minute analysis of common practice, which a man is enabled to give, who refides fome months, or years, confined to one fpot; twenty men, employed during twenty years, would not effect it; and supposing it done, not one thousandth part of their labours would be worth a perufal. Some fingularly enlightened districts merit such attention: but the number of them, in any country is, inconfiderable; and the practices that deferve such a study, perhaps, fill fewer: to know that unlightened practices exift, and want improvement, is the chief knowledge that is of tife to convey; and this rather for the flatefman than the farmer. No reader, if he knows any thing of my fituation, will expect, in this work, what the advantages of rank and fortune are necessary to produce—of such I had none to exert, and could combat difficulties with no other arms than unremitted attention, and unabating industry. Had my aims been seconded by that success in life, which gives energy to effort, and vigour to purfuit, the work would have been more worthy of the public eye; but fuch fuccefs mult, in this kingdom, be fooner looked for in any other path than that of the plough; non ullus aratro dignus bonos, was not more applicable to a period of confusion and bloodshed at Rome, than to one of peace and luxury in England.

One circumstance I may be allowed to mention, because it will shew, that whatever faults the ensuing pages contain, they do not flow from any prefumptive expectation of success; a feeling that belongs to writers only, much more popular than myself: when the publisher agreed to run the hazard of printing these papers, and some progress being made in the journal, the whole MS. was put into the compositor's hand to be examined, if there were a sufficiency for a volume of 60 sheets; he sound enough prepared for the press to fill 140: and I assure the reader, that the successive employment of striking out and mutilating more than the half of what I had written, was executed with more indifference than regret, even though it obliged me to exclude several chapters, upon which I had taken considerable pains. The publisher would have printed the whole; but whatever faults may be found with the author, he ought at least to be exempted from the imputation of an undue considence in the public favour; tince, to expunge was undertaken as readily as to compose. So much depended in the second part of the work on accurate figures, that I did not care to trust myself, but employed a schoolmaster, who has the reputation of being a good arithmetician, for examining the

calculations, and I hope he has not let any material errors escape him.

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The revolution in France was a hazardous and critical fubject, but too important to be neglected; the details I have given, and the reflections I have ventured will, I trust, be received with candour by those who consider how many authors, of no inconsiderable ability and reputation, have failed on that difficult theme: the course I have sleered is so removed from extremes, that I can hardly hope for the approbation of more than a few; and I may apply to myself, in this instance, the words of Swist:—" I have the ambition, common with other reasoners, to wish at least that both parties may think me in the right; but if that is not to be hoped for, my next wish should be, that both might think me in the wrong; which I would understand as anample justification of myself, and a sure ground to believe that I have proceeded at least with impartiality, and perhaps with truth."

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TRAVELS, &c.

THERE are two methods of writing travels; to register the journey itself, or the result of it. In the former case it is a diary, under which head are to be classed all those books of travels written in the form of letters. The latter usually falls into the shape of essays on distinct subjects. Of the former method of composing, almost every book of modern travels is an example. Of the latter, the admirable essays of my valuable friend Mr. Professor Symonds, upon Italian agriculture, are the most perfect specimens.

It is of very little importance what form is adopted by a man of real genius; he will make any form useful, and any information interesting. But for persons of more moderate talents, it is of consequence to consider the circumstances for and against both these modes.

The journal form hath the advantage of carrying with it a greater degree of credibility; and, of courfe, more weight. A traveller who thus registers his observations is detected the moment he writes of things he has not feen. He is precluded from giving fludied or elaborate remarks upon infussicient foundations: if he sees little he must register little: if he has few good opportunities of being well informed, the reader is enabled to observe it, and will be induced to give no more credit to his relations than the fources of them appear to deserve: if he passes for apidly through a country as necessarily to be no judge of what he sees, the reader knows it: if he dwells long in places of little or no moment with private views or for private business, the circumstance is seen; and thus the reader has the satisfaction of being as safe from imposition either designed or involuntary, as the nature of the case will admit: all which advantages are wanted in the other method.

But to balance them, there are on the other hand some weighty inconveniences; among these the principal is, the prolixity to which a diary generally leads; the very mode of writing almost making it inevitable. It necessarily causes repetitions of the same subjects and the same ideas; and that surely must be deemed no inconsiderable sault, when one employs many words to say what might be better said in a sew. Another capital objection is, that subjects of importance, instead of being treated de suite for illustration or comparison, are given by seraps as received, without order, and without connection; a mode which besses the effect of writing, and descrys much of its utility.

In favour of composing estays on the principal objects that have been observed, that is, giving the result of travels and not the travels themselves, there is this obvious and

great advantage, that the subjects thus treated are in as complete a state of combination and illustration as the abilities of the author can make them; the matter comes with sulforce and effect. Another admirable circumstance is brevity; for by the rejection of all useless details, the reader has nothing before him but what tends to the sulf explanation of the subject: of the disadvantages, I need not speak; they are sufficiently noted by shewing the benefits of the diary form; for proportionably to the benefits of the one, will clearly be the disadvantages of the other.

After weighing the pour and the contre, I think that it is not impracticable in my pe-

culiar case to retain the benefits of both these plans.

With one leading and predominant object in view, namely agriculture, I have conceived that I might throw each subject of it into distinct chapters, retaining all the ad-

vantages which arise from composing the result only of my travels.

At the fame time, that the reader may have whatever fatisfaction flows from the diary form, the observations which I made upon the face of the countries through which I passed; and upon the manners, customs, amusements, towns, roads, seats, &c. may, without injury, be given in a journal, and thus satisfy the reader in all those points, with which he ought in candour to be made acquainted, for the reasons above intimated.

It is upon this idea that I have reviewed my notes, and executed the work I now offer

to the public.

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But travelling upon paper, as well as moving amongst rocks and rivers, hath its difficulties. When I had traced my plan, and begun to work upon it, I rejected, without mercy, a variety of little circumstances relating to myself only, and of conversations with various persons which I had thrown upon paper for the amusement of my family and intimate friends. For this I was remonstrated with by a person, of whose judgment I think highly, as having absolutely spoiled my diary, by expunging the very pasfages that would best please the mass of common readers; in a word, that I must give up the journal plan entirely, or let it go as it was written. - To treat the public like a friend, let them fee all, and trust to their candour for forgiving trifles. He reasoned thus: "Depend on it, Young, that those notes you wrote at the moment, are more likely to pleafe than what you will now produce coolly, with the idea of reputation in your head: whatever you strike out will be what is most interesting, for you will be guided by the importance of the subject; and believe me, it is not this consideration that pleases so much as a careless and easy mode of thinking and writing, which every man exercises most when he does not compose for the press. That I am right in this opinion you yourfelf afford a proof. Your tour of Ireland (he was pleafed to fay) is one of the best accounts of a country I have read, yet it had no great success. Why? because the chief part of it is a farming diary, which, however valuable it may be to confult, nobody will read. If, therefore, you print your journal at all, print it so as to be read; or reject the method entirely, and confine yourself to set differtations. Remember the travels of Dr. —— and Mrs. ——, from which it would be difficult to gather one fingle important idea, yet they were received with applause; nay, the bagatelles of Baretti, amongst the Spanish muleteers were read with avidity.

The high opinion I have of the judgment of my friend, induced me to follow his advice; in confequence of which, I venture to offer my itinerary to the public, just as it was written on the spot: requesting my reader, if much should be found of a trifling nature to pardon it, from a reslection, that the chief object of my travels is to be found in another part of the work, to which he may at once have recourse, if he wish to attend

only to subjects of a more important character.

JOURNAL. ____May 15, 1787.

THE streight that separates England, so fortunately for her, from all the rest of the world, must be crossed many times before a traveller ceases to be surprised at the sudden and universal change that surrounds him on landing at Calais. The scene, the people, the language, every object is new; and in those circumstances in which there is most resemblance, a discriminating eye finds little difficulty in discovering marks of distinction.

The noble improvement of a falt marsh, worked by Mons. Mouron of this town, occasioned my acquaintance some time ago with that gentleman; and I had sound him too well informed, upon various important objects, not to renew it with pleasure. I spent an agreeable and instructive evening at his house.——165 miles.

The 17th. Nine hours rolling at anchor had fo fatigued my mare, that I thought it necessary for her to rest one day; but this morning I lest Calais. For a sew miles the country resembles parts of Norfolk and Sussoik; gentle hills, with some inclosures around the houses in the vales, and a distant range of wood. The country is the same to Boulcgne. Towards that town, I was pleased to find many seats belonging to people who reside there. How often are false ideas conceived from reading and report! I imagined that nobody but farmers and labourers in France lived in the country; and the first ride I take in that kingdom shews me many country seats. The road excellent.

Boulogne is not an ugly town; and from the ramparts of the upper part the view is beautiful, though low water in the river would not let me fee it to advantage. It is well known that this place has long been the refort of great numbers of perfons from England, whose misfortunes in trade, or extravagance in life, have made a residence abroad more agreeable than at home. It is eafy to suppose that they here find a level of society that tempts them to herd in the fame place. Certainly it is not cheapnefs, for it is rather dear. The mixture of French and English women makes an odd appearance in the fireets; the latter are dreffed in their own fashion; but the French heads are all without hats, with close caps, and the body covered with a long cloak that reaches to the feet. The town has the appearance of being flourishing: the buildings good, and. in repair, with fome modern ones; perhaps as fure a tell of prosperity as any other. They are raifing also a new church, on a large and expensive scale. The place on the whele is chearful, the environs pleafing, and the fea-shore is a slat strand of firm fand as far as the tide reaches. The high land adjoining is worth viewing by those who have not already feen the petrification of clay; it is found in the flony and argilaceous flate, just as I described at Harwich. (Annals of Agriculture, vol. vi. p 218.) 24 miles.

The 18th. The view of Boulogne from the other fide, at the diffance of a mile is a pleafing landfcape; the river meanders in the vale, and spreads in a fine reach under the town, just before it falls into the fea, which opens between two high lands, one of which backs the town. The view wants only wood; for if the hills had more, fancy could fearcely paint a more agreeable feene. The country improves, more inclosed, and some parts strongly refembling England. Some fine meadows about Bonbrie, and several chateaus. I am not professedly in this diary on husbandry, but must just observe, that it is to the full as bad as the country is good; corn mis rable and yellow with weeds, yet all summer fallowed with 'off attention. On the hills, which are at no great distance from the fea, the trees turn their heads from it, shorn of their foliage; it is not therefore to the S. W. alone that we should attribute this effect. If the French have not husbandry to show us, they have roads; nothing can be more beautiful, or kept in

more garden order, if I may use the expression, than that which passes through a sine wood of Mons. Neuvillier's; and indeed for the whole way from Samer it is wonderfully formed: a vast causeway, with bills cut to level vales; which would fill me with admiration, if I had known nothing of the abominable corvées, that make me commiserate the oppressed farmers, from whose extorted labour this magnificence has been wrung. Women gathering grass and weeds by hand in the woods for their cows is a trait of poverty.

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País turberries, near Montreuil, like those at Newbury. The walk round the ramparts of that town is pretty: the little gardens in the bastions below are singular. The place has many English; for what purpose not easy to conceive, for it is unenlivened by those circumstances that render towns pleasant. In a short conversation with an English family returning home, the lady, who is young, and I conjecture agreeable, assured me I should find the court of Versailles amazingly splendid. Oh! how she loved France!—and should regret going to England if she did not expect soon to return. As she had crossed the kingdom of France, I asked her what part of it pleased her best; the answer was, such as a pair of pretty lips would be sure to utter, "Oh! Paris and Versailles." Her husband, who is not so young, said "Touraine." It is probable, that a farmer

Her husband, who is not so young, said "Touraine." It is probable, that a farmer is much more likely to agree with the sentiments of the husband than of the lady, not-withstanding her charms.——24 miles.

The 19th. Dined, or rather starved at Bernay, where for the first time I met with that wine of whose ill same I had heard so much in England, that of being worse than small beer. No scattered farm-house in this part of Picardy, all being collected in villages, which is as unfortunate for the beauty of a country, as it is inconvenient to its cultivation. To Abbeville, unpleasant, nearly slat; and though there are many and great woods, yet they are uninteresting. Pass the new chalk chateau of Mons. St. Maritan, who, had he been in England, would not have built a house in that situation, nor have projected his walls like those of an alms-house.

Abbeville is faid to contain 22,000 fouls; it is old, and difagreeably built; many of the houses of wood, with a greater air of antiquity than I remember to have seen; their brethren in England have been long ago demolished. Viewed the manusacture of Van Robais, which was established by Louis XIV. and of which Voltaire and others have spoken so much. I had many enquiries concerning wool and woollens to make here; and, in conversation with the manusacturers, found them great politicians, condemning with violence the new commercial treaty with England.—30 miles.

The 21st. It is the same flat and unpleasing country to Flixcourt.——15 miles.

The 22d. Poverty and poor crops to Amiens; women are now ploughing with a pair of horses to sow barley. The difference of the customs of the two nations is in nothing more striking than in the labours of the sex; in England, it is very little that they will do in the fields except to glean and to make hay; the first is a party of pissering, and the second of pleasure: in France, they plough and fill the dung cart. Lombardy poplars seem to have been introduced here about the same time as in England.

Picquigny has been the scene of a remarkable transaction, that does great honour to the tolerating spirit of the French nation. Mons. Colmar, a Jew, bought the seignory and estate, including the viscounty of Amiens, of the Duke of Chaulnes, by virtue of which he appoints the canons of the cathedral of Amiens. The bishop resisted his nomination, and it was carried by appeal to the parliament of Paris, whose decree was in favour of Mons. Colmar. The immediate seignory of Picquigny, but without its dependancies, is resold to the Count d'Artois.

At Amiens, view the cathedral, said to be built by the English; it is very large, and beautifully light and decorated. They are fitting it up in black drapery, and a great canopy, with illuminations for the burial of the Prince de Tingry, colonel of the regiment of cavalry, whose station is here. To view this was an object among the people, and crouds were at each door. I was refused entrance, but some officers being admitted, gave orders that an English gentleman without should be let in, and I was called back from some distance and defired very politely to enter, as they did not know at first that I was an Englishman. These are but trisses, but they shew liberality, and it is fur to report them. If an Englishman receives attention in France, because he is an Englishman, what return ought to be made to a Frenchman in England, is sufficiently obvious. The chateau d'eau, or machine for supplying Amiens with water, is worth viewing; but plates only could give an idea of it. The town abounds with woollen manufactures. I conversed with several masters, who united entirely with those of Abbeville in condemning the treaty of commerce.——15 miles.

The 23d. To Bretuil the country is diversified, woods every where in fight the whole

journey.—21 miles.

The 24th. A flat and uninteresting chalky country continues almost to Clermont; where it improves; is hilly and has wood. The view of the town, as soon as the dale

is feen, with the Duke of Fitzjames's plantations, is pretty.----24 miles.

The 25th. The environs of Clermont are picturefque. The hills about Liancourt ive pretty; and spread with a fort of cultivation I had never seen before, a mixture of vineyard (for here the vines first appear), garden and corn. A picce of wheat; a scrap of lucerne; a patch of clover or vetches; a bit of vines; with cherry, and other fruit-trees scattered among all, and the whole cultivated with the spade: it makes a pretty

appearance, but must form a poor system of trisling.

Chantilly !- magnificence is its reigning character; it is never loft. There is not tafte or beauty enough to fosten it into milder seatures: all but the chateau is great; and there is fomething imposing in that; except the gallery of the Great Conde's battle, and the cabinet of natural history which is rich in very fine specimens, most advantageously arranged, it contains nothing that demands particular notice; nor is there one room which in England would be called large. The stable is truly great, and exceeds very much indeed any thing of the kind I had ever feen. It is five tundred and eighty feet long, and f y broad, and is fometimes filled with two hundred and forty English horses. I had been so accustomed to the imitation in water, of the waving and irregular lines of nature, that I came to Chantilly prepoffelf d against the idea of a canal; but the view of one here is striking, and had the effect which magnificent feenes imprefs. It arises from extent, and from the right lines of the water uniting with the regularity of the objects in view. It is Lord Kaimes, I think, who fays, that the part of the garden contiguous to the house should partake of the regularity of the building; with much magnificence about a place, this is almost unavoidable. The effect here, however, is leffened by the parterre before the cattle, in which the divisions and the diminutive jets-d'eau are not of a fize to correspond with the magnificence of the canal. The menagerie is very pretty, and exibits a prodigious variety of domestic poultry, from all parts of the world; one of the best objects to which a menagerie can be applied; these, and the Corsican stag, had all my attention. The hameau contains an imitation of an English garden; the taste is but just introduduced into France, fo that it will not fland a critical examination. The most English idea I faw is the lawn in front of the stables; it is large, of a good verdure, and well nd

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kept; proving clearly that they may have as fine lawns in the north of France as in England. The labyrinth is the only complete one I have feen, and I have no inclination to fee another: it is in gardening what a rebus is in poetry. In the Sylvae are many very fine and fearce plants. I wish those persons who view Chantilly, and are fond of fine trees, would not forget to ask for the great beech; this is the finest I ever saw; strait as an arrow, and, as I gues, not less than eighty or ninety feet high; forty feet to the first branch; and twelve feet diameter at five from the ground. It is in all respects one of the finest trees that can any where be met with. Two others are near it, but not equal to this superb one. The forest around Chantilly, belonging to the Prince of Condé, is immense, spreading far and wide; the Paris road crosses it for ten miles, which is its least extent. They say the capitainerie, or paramountship, is above one hundred miles in circumference. That is to say, all the inhabitants for that extent are pestered with game, without permission to destroy it, in order to give one man diversion. Ought not these capitaineries to be extirpated?

At Luzarch, I found that my mare, from illness, would travel no further; French stables, which re covered dung-hills, and the carelessness of garçons d'ecuries, an execrable set of vermin, had given her cold. I therefore lest her to send for from Paris, and went thither post; by which experiment I found that posting in France is much worse, and even, upon the whole, dearer than in England. Being in a post-chaise I travelled to Paris, as other travellers in post-chaises do, that is to say, knowing little or nothing. The last ten miles I was eagerly on the watch for that throng of carriages which near London impede the traveller. I watched in vain, for the road, quite to the gates, is, on comparison, a perfect desert. So many great roads join here, that I suppose this must be accidental. The entrance has nothing magnificent; ill thill and dirty. To get to the Rue de Varenne Fauxbourgh St. Germain, I had the whole city to cross, and passed it by narrow, ugly, and crouded streets.

At the hotel de la Rochefoucauld I found the Duke of Liancourt and his fons, the Count de la Rochefoucald, and the Count Alexander, with my excellent friend Monfieur de Lazowski, all of whom I had the pleasure of knowing in Suffolk. They introduced me to the Duchess D'Estissac, mother of the Duke of Liancourt, and to the Duchess of Liancourt. The agreeable reception and friendly attentions I met with from all this liberal family were well calculated to give me the most favourable impression * * * * * .—42 miles.

The 26th. So short a time had I passed before in France, that the scene is totally new to me. Till we have been accustomed to travelling, we have a propensity to stare at and admire every thing—and to be on search for novelty, even in circumstances in which it is ridiculous to look for it. I have been upon the full silly gape to find out things that I had not found before, as if a street in Paris could be composed of any thing but houses, or houses formed of any thing but brick or stone—or that the people in them, not being English, would be walking on their heads. I shall shake off this folly as sast as I can, and bend my attention to mark the character and disposition of the nation. Such views naturally lead us to catch the little circumstances which sometimes express them; not an easy task but subject to many errors.

I have only one day to pass at Paris, and that is taken up with buying necessaries. At Calais my abundant care produced the inconvenience it was meant to avoid; I was afraid of losing my trunk, by leaving it at Dessein's for the diligence; so I sent it to M. Mouron's.—The consequence is, that it is not to be found at Paris, and its contents are to be bought again before I can leave this city on our journey to the Pyrenees. I believe it may be received as a maxim, that a traveller should always trust

his baggage to the common voitures of the country, without any extraordinary precautions.

After a rapid excursion, with my friend Lazowski, to see many things, but too hashily to form any correct idea, spent the evening at his brother's, where I had the pleasure of meeting Mons. de Broussonet, secretary to the royal society of agriculture, and Mons. Definaret, both of the academy of secretary to the royal society of agriculture, and Mons. Definaret, both of the academy of secretary to the royal society of agriculture, and Mons. Definaret, both of the academy of secretary to the royal society of agriculture, and such as the other gentlemen have paid much attention to agriculture, the conversation was in no slight degree instructive, and I regretted that a very early departure from Paris would not let me promise myself a further enjoyment so congenial with my feelings, as the company of men, whose convertation shewed a marked attention to objects of national importance. On the breaking up of the party, went with Count Alexander de la Rochesoncauld post to Verfailles, to be present at the set of the day sollowing (Whitsunday). Slept at the Duke de Liancourt's hotel.

The 27th. Breakfasted with him at his apartments in the palace, which are annexed to his office of grand master of the wardrobe, one of the principal in the court of France.—Here I found the duke furrounded by a circle of noblemen, among whom was the Duke de la Rochefoucauld, well known for his attention to natural inflory; I was introduced to him, as he is going to Bagnere de Luchon in the Pyrenees, where I

am to have the honour of being in his party.

The ceremony of the day was, the king's investing the Duke of Berri, son of the Count D'Artois, with the cordon blue. The queen's band was in the chapel where the ceremony was performed, but the musical effect was thin and weak. During the service the king was seated between h s two brothers, and seemed by his carriage and inattention to wish himself a hunting. He would certainly have been as well employed as in hearing afterwards from his throne a seudal oath of chivalry, I suppose, or some such nonsense, administered to a boy of ten years old. Seeing so much pompous folly I imagined it was the dauphin, and asked a lady of fashion near me; at which she laughed in my face, as if I had been guilty of the rost egregious idiotism: nothing could be done in a worse manner; for the stifling of her expression only marked it the more. I applied to Mons, de la Rochesoucauld to learn what gross absurdity I had been guilty of so unwittingly; when, forsooth, it was because dauphin, as all the world knows in France, has the cordon blue put around him as soon as he is born. So unpardonable was it for a foreigner to be ignorant of such an important part of French history, as that of giving a babe a blue slobbering bib instead of a white one!

After this ceremony was finished, the king and the knights walked in a fort of proceffion to a finall apartment in which he dined, faluting the queen as they paffed.

There appeared to be more ease and familiarity than form in this part of the ceremony; her majefly, who, by the way, is the most beautiful woman I saw to-day, received them with a variety of expression. On some she smiled; to others she talked; a sew seemed to have the honour of being more in her intimacy. Her return to some was formal, and to others distant. To the gallant Suffrein it was respectful and benign. The ceremony of the king's dining in public is more odd than splendid. The queen sat by him with a cover before her, but ate nothing; conversing with the duke of Orleans, and the Duke of Liancourt, who stood behind her chair. To me it would have been a most uncomfortable meal, and were I a sovereign, I would sweep away three-sourths of these slupid forms; if kings do not dine like other people, they lose much of the pleasure of life; their station is very well calculated to deprive them of much, and they submit to nonsensical customs, the sole tendency of which is to lessen

the remainder. The only comfortable or amufing dinner is a table of ten or twelve covers for the people whom they like; travellers tell us that this was the mode of the late King of Pruffia, who knew the value of life too well to facrifice it to empty forms

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The palace of Verfailles, one of the objects of which report had given me the greatest expectation, is not in the leaft striking: I view it without emotion: the impression it makes is nothing. What can compensate the want of unity? From whatever point viewed, it appears an affemblage of buildings; a splendid quarter of a town, but not a fine edifice; an objection from which the garden front is not free, though by far the most beautiful .- The great gallery is the finest room I have seen; the other apartments are nothing; but the pictures and flatues are will known to be a capital collection. The whole palace, except the chapel, feems to be open to all the world; we pushed through an amazing croud of all forts of people to fee the proceffion, many of them not very well dreffed, whence it appears, that no questions are asked. But the officers at the door of the apartment in which the king dined, made a distinction, and would not permit all to enter promifcuouly.

Travellers speak much, even very late ones, of the remarkable interest the French take in all that perforally concerns their king, flewing by the eagerness of their attention not curiofity only, but love. Where, how, and in whom those gentlemen difcovered this I know not.—It is either mifreprefentation, or the people are changed in a few years more than is credible. Dine at Paris, and in the evening the Duchels of Liancourt, who feems to be one of the best of women, carried me to the opera at St. Cloud, where also we viewed the palace which the queen is building; it is large, but

there is much in the front that does not please me. -- 20 miles

The 28th. Finding my mare sufficiently recovered for a journey, a point of importance to a traveller fo weak in cavalry as myfelf, I left Paris, accompanying the Count de la Rochefoucauld and my friend Lazowski, and commencing a journey that is to cross the whole kingdom to the Pyrenees. The road to Orleans is one of the greatest that leads from Paris; I expected, therefore, to have my former impression of the little traffic near that city removed; but on the contrary it was confirmed; it is a defert compared with those around London. In ten miles we met not one stage, or diligence; only two mellageries, and very few chaifes; not a tenth of what would have been met had we been leaving London at the fame hour. Knowing how great, rich, and important a city Paris is, this circumflance perplexes me much. Should it afterwards be confirmed, conclusions in abundance are to be drawn.

For a few miles, the scene is every where scattered with the shafts of quarries, the stone drawn up by lanthorn wheels of a great diameter. The country diverlified; and its greatest want to pleafe the eye is a river; woods generally in view; the proportion of the I rench territory covered by this production for want of coals, must be prodigious, for it has been the fame all the way from Calais. At Arpajon, the Maréchal Duke de Mouchy has a fmall house, which has nothing to recommend it.——20 miles.

The 29th. To Estamps is partly through a slat country, the beginning of the famous Pays de Beauce. To Toury, flat and disagreeable, only two or three gentlemen's seats in fight.—31 miles.

The 30th. One universal flat, uninclosed, uninteresting, and even tedious, though fmall towns and villages are every where in fight; the features that might compound a landscape are not brought together. This Pays de Beauce contains by reputation, the cream of French hushandry; the foil excellent; but the manage cent all fallows

town.---20 miles.

Pa's through part of the forest of Orleans belonging () the duke of that name; it is one of the largest in France.

From the steeple of the cathedral at Orleans, the prospect is very fine. The town large, and its fuburbs, of fingle fireets, extend near a league. The vaft range of country, that fpreads on every file, is an unbounded plain, through which the magnificent Loire bends his flately way, in fight for fourteen leagues; the whole feattered with rich meadows, vineyards, gardens, and forells. The population must be very great; for, befide the city, which contains near forty thousand people, the number of finaller towns and villages flrewed thickly over the plain is fuch as to render the whole scene animated. The cathedral, from which we had this noble prospect, is a fine building, the choir raifed by Henry IV. The new church is a pleafing edifice; the bridge a noble structure of stone, and the first experiment of the stat arch made in France, where it is now fo fashionable. It contains nine, and is four hundred and ten feet long, and forty-five wide. To hear fome Englishmen talk, one would suppose there was not a fine bridge in all France; not the first, nor the last error I hope that travelling will remove. There are many barges and boats at the quay, built upon the river in the Bourbonnois, &c. loaded with wood, brandy, wine, and other goods; on arriving at Nantes, the veffels are broken up and fold with the cargo. Great numbers built with fpruce fir. A boat goes from hence to that city, when demanded by fix

passengers, each paying a louis-d'or: they lie on shore every night, and reach Nantes in sour days and an half. The principal street leading to the bridge is a sine one all busy and alive, for the trade is brisk here. Admire the sine acacias scattered about the

The 31ft. On leaving it, enter foon the miferable province of Sologne, which the French writers call the trifte Sologne. Through all this country they have had fevere fpring froits, for the leaves of the walnuts are black and cut off. I should not have expected this unequivocal mark of a bad climate after paffing the Loire. To La Ferté Lowendahl, a dead flat of hungry fand gravel, with much heath. The poor people, who cultivate the foil here, are metayers, that is, men who hire the land without ability to flock it; the proprietor is forced to provide cattle and feed, and he and his tenant divide the produce; a miferable fystem, that perpetuates poverty and excludes instruction. At La Ferté is a handsome chateau of the Marquis de Coix, with several canals, and a great command of water. To Nonant-le-Fuzelier, a strange mixture of fand and water. Much inclosed, and the houses and cottages of wood filled between the fluds with clay or bricks, and covered not with flate but tile, with fome barns boarded like those in Suffolk-rows of pollards in some of the hedges; an excellent road of fand; the general features of a woodland country; all combined to give a ftrong refemblance to many parts of England; but the husbandry is fo little like that of England, that the least attention to it destroyed every notion of similarity.——27 miles.

JUNE 1. The fame wretched country continues to La Loge; the fields are feenes of pitiable management, as the houses are of mifery. Yet all this country highly improveable, if they knew what to do with it: the property, perhaps, of some of these glittering beings, who sigured in the procession the other day at Versailles. Heaven grant me patience while I see a country thus neglected—and forgive me the oaths I swear at the absence and ignorance of the possession.—Enter the generality of Bourges, and soon after a forest of oak belonging to the Count d'Artois; the trees are dying at top, before they attain any size. There the miserable Sologne ends; the first view of Verson and

its vicinity is fine. A noble vale spreads at your feet, through which the vive Cheere leads, seen in several places to the distance of some leagues; a bright sur burnished the water, like a string of lakes amidst the shade of a vast woodland. See Bourges to the left.——18 miles.

The 2d. Pass the rivers Cheere and Lave; the bridges well built; the stream fine, and with the wood, buildings, boats, and adjoining hills, form an animated scene. Several new houses, and buildings of good stone in Verson; the place appears thriving, and doubtless owes much to the navigation. We are now in Berri, a province governed by a provincial assembly, consequently the roads good, and made without converse. Vatan is a little town that subsists chiefly by spinning. We drank there excelent Sancere wine, of a deep colour, rich forcer, and good body, 20s. the bottle; at in the country ten. An extensive prospective we arrived at Chateauroux where we viewed the manufactures.——40 miles.

The 3d. Within about three miles of Argenton come upon a fine scene, beautiful, et with bold features; a narrow vale bounded on every fide with hills, covered with ood, all of which are immediately under the eye, without a level acre, except the bottom of the vale, through which a river flows, by an old castle picturesquely situa-

ted to the right; and to the left, a tower rifing out of a wood.

At Argenton, walk up a rock that hangs almost over the town. It is a delicious scene. A natural ledge of perpendicular rock pushes forward abruptly over the vale, which is half a mile broad, and two or three long: at one end closed by hills, and at the other filled by the town with vineyards rising above it; the surrounding scene that hems in the vale is high enough for relief; vineyards, rocks or hills covered with wood. The vale cut into inclosures of a lovely verdure, and a fine river winds through it, with an outline that leaves nothing to wish. The venerable fragments of a castle's ruins, near the point of view, are well adapted to awaken reflections on the triumph of the arts of peace over the barbarous ravages of the seudal ages, when every class of society was involved in commotion, and the lower ranks were worse slaves than at present.

The general face of the country, from Verson to Argenton, is an uninteresting slat with many heaths of ling. No appearance of population, and even towns are thin. The husbandry poor and miserable. By the circumstances to which I could give attention I conceive them to be honest and industrious; they seem clean; are civil, and have good countenances. They appear to me as if they would improve their country, if they formed the part of a system, the principles of which tended to national prosperity.——18

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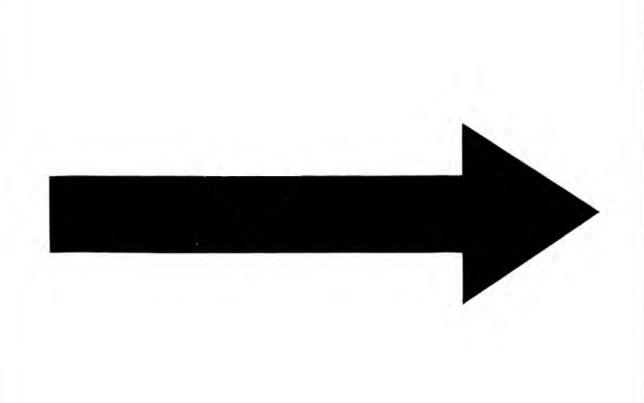
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The 4th. Pass an inclosed country, which would have a better appearance if the oaks had not lost their foliage by insects, whose webs hang over the buds. They are but now coming into leaf again. Cross a stream which separates Berri from La Marche; chesnuts appear at the same time; they are spread over all the fields, and yield the food of the poor. A variety of hill and dale, with sine woods, but little signs of population. Lizards for the first time also. There seems a connection relative to climate between the chesnuts and these harmless animals. They are very numerous, and some of them near a foot long. Sleep at La Ville au Brun.—24 miles.

The 5th. The country improves in beauty greatly; pass a vale, where a causeway stops the water of a small rivulet and swells it into a lake, that forms one feature of a delicious scene. The indented outlines and the swells margined with wood are beautiful; the hills on every side in unison; one now covered with ling the prophetic eye of taste

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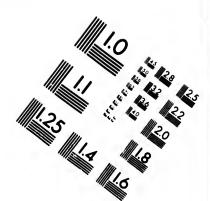
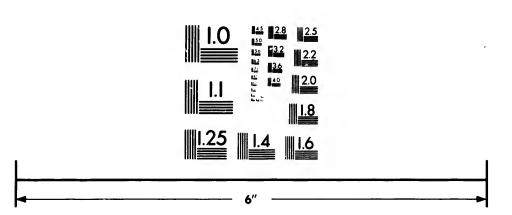
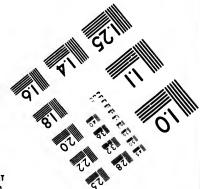


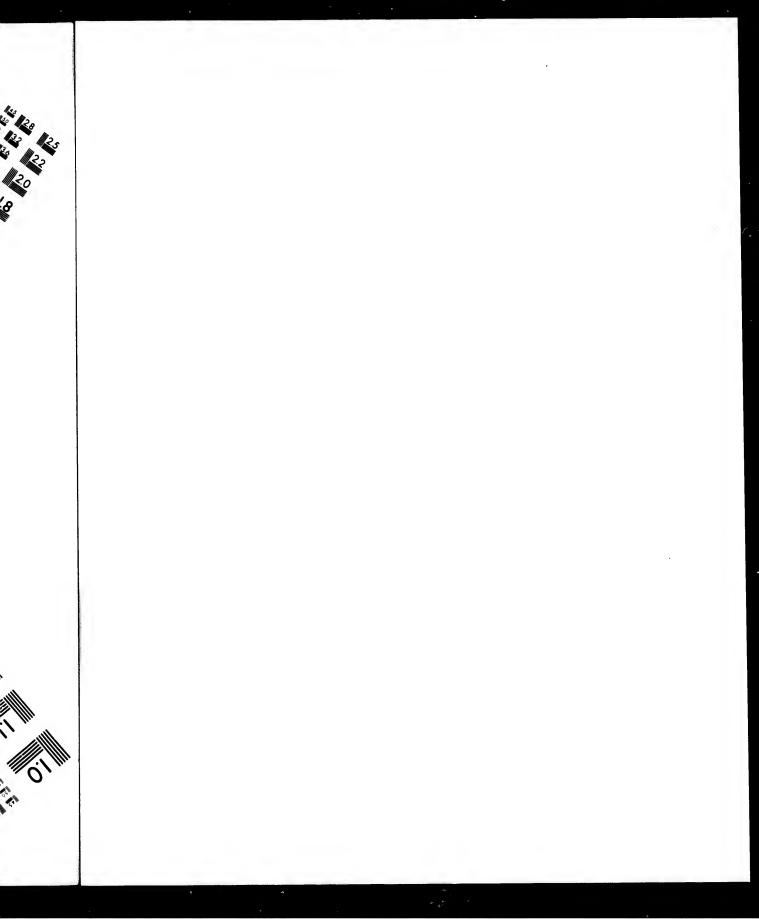
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may imagine lawn. Nothing is wanted to render the scene a garden, but to clear away rubbish.

The general face of the country, for 16 miles, by far the most beautiful I have seen in France; it is thickly inclosed, and full of wood; the umbrageous foliage of the chefnuts gives the fame beautiful verdure to the hills, as watered meadows (feen for the first time to day) to the vales. Distant mountainous ridges form the back ground, and make the whole interesling. The declivity of country, as we go down to Bassies, offers a beautiful view; and the approach to the town prefents a landscape fancifully grouped of rock, and wood, and water. To Limoge, pais another artificial lake between cultivated ills; beyond are wilder heights, but mixed with pleasant vales; still another lake more beautiful than the former, with a fine accompaniment of wood; across a mountain of chefnut copfe, which commands a scene of a character different from any I have viewed either in France or England, a great range of hill and dale all covered with forest, and bounded by distant mountains. Not a vestige of any human residence; no village; no house or hut, no smoke to raise the idea of a peopled country; an American scene; wild enough for the tomohawk of the favage. Stop at an execrable auberge, called Maifon Rouge, where we intended to fleep; but, on examination, found every appearance so forbidding, and so beggarly an account of a larder, that we passed on to Limoge. The roads through all this country are truly noble, far beyond any thing I have feen in France or elsewhere. 44 miles.

The 6th. View Limoge, and examine its manufactures. It was certainly a Roman station, and some traces of its antiquity are still remaining. It is ill built, with narrow and crooked streets, the houses high and disagreeable. They are raised of granite, or wood with lath and plaister, which saves lime, an expensive article here, being brought from a distance of twelve leagues; the roofs are of pantiles, with projecting eaves, and almost stat; a sure proof we have quitted the region of heavy snows. The best of their public works is a noble sountain, the water conducted three quarters of a league by an arched aqueduct, brought under the bed of a rock 60 feet deep to the highest spot in the town, where it falls into a bason sistem feet diameter, cut out of one piece of granite; thence the water is let into refervoirs, closed by sluices, which are opened for watering

the streets, or in case of fires.

The cathedral is ancient, and the roof of stone; there are some arabesque ornaments cut in stone, as light, airy, and elegant as any modern house can boast, whose decorations

are in the same taste.

The present bishop has erected a large and handsome palace, and his garden is the finest object to be seen at Limoge, for it commands a landscape hardly to be equalled for beauty: it would be idle to give any other description than just enough to induce travellers to view it. A river winds through a vale, surrounded by hills that present the gayest and most animated assemblage of villas, farms, vines, hanging meadows, and chesnuts blended so fortunately as to compose a scene truly smiling. This bishop is a friend of the Count de la Rocheloucauld's samily; he invited us to dine, and gave us a very handsome entertainment. Lord Macartney, when a prisoner in France, after the Grenades were taken, spent some time with him; there was an instance of French politeness shewn to his lordship, that marks the urbanity of this people. The order came from court to sing Te Deum on the very day that Lord Macartney was to arrive. Conceiving that the public demonstrations of joy for a victory that brought his noble guest a prisoner, might be personally unpleasant to him, the bishop proposed to the intendant to postpone the ceremony for a few days, in order that he might not meet it so abruptly;

this was instantly acceded to, and conducted in such a manner afterwards as to mark as much attention to Lord Macartney's feelings as to their own. The bishop told me, that Lord Macartney spoke French better than he could have conceived possible for a foreigner, had he not heard him; better than many well educated Frenchmen.

The post of intendant here was rendered celebrated by being filled by that friend of mankind, Turgot, whose well earned reputation in this province placed him at the head of the French finances, as may be very agreeably learned, in that production of equal truth and elegance, his life by the Marquis of Condorcet. The character which Turgot left here is confiderable. The noble roads we have passed, so much exceeding any other I have feen in France, were amongst his good works; an epithet due to them because not made by corvées. There is here a society of agriculture, which owes its origin to the same distinguished patriot: but in that most unlucky path of French exertion he was able to do nothing: evils too radically fixed were in the way of the attempt. This fociety does like other focieties,—they meet, converse, offer premiums, and publish nonsense. This is not of much consequence, for the people, instead of reading their memoirs, are not able to read at all. They can however fee; and if a farm was established in that good cultivation which they ought to copy, something would be presented from which they might learn. I asked particularly if the members of this society had land in their own hands, from which it might be judged if they knew any thing of the matter themselves: I was affured that they had; but the conversation presently explained it: they had metayers around their country feats, and this was confidered as farming their own lands, so that they assume something of a merit from the identical circumflance, which is the curfe and ruin of the whole country. In the agricultural converfations we had on the journey from Orleans, I have not found one perfon who feemed fensible of the mischief of this system.

The 7th. No chesnuts for a league before we reach Biere Buffiere, they say because the basis of the country is a hard granite; and they assert also at Limoge, that in this granite there grow neither vines, wheat, nor chesnuts, but that on the softer granites these plants thrive well: it is true, that chesnuts and this granite appeared together when we entered Limosin. The road has been incomparably fine, and much more like the well kept alleys of a garden than a common high-way. See for the first time old towers, that appear numerous in this country.—33 miles.

The 8th. Pass an extraordinary spectacle for English eyes, of many houses too good to be called cottages, without any glass windows. Some miles to the right is Pompadour, where the king has a stud; there are all kinds of horses, but chiefly Arabian, Turkish, and English. Three years ago four Arabians were imported, which had been procured at the expence of 72,000 livres (31491.) the price of covering a mare is only three livres to the groom; the owners are permitted to sell their colts as they please, but if these come up to the standard height, the king's officers have the preference, provided they give the price offered by others. These horses are not saddled till six years old. They pasture all day, but at night are confined on account of wolves, which are so common as to be a great plague to the people. A horse of six years old, a little more than four feet six inches high, is sold for 701; and 151 has been offered for a colt of one year old. Pass Uzarch; dine at Douzenac; between which place and Brive meet the first maize, or Indian corn.

The beauty of the country, through the thirty-four miles from St. George to Brive, is so various, and in every respect so striking and interesting, that I shall attempt no particular description, but observe in general, that I am much in doubt, whether there be any thing comparable to it either in England or Ireland. It is not that a fine view breaks

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now and then upon the eye to compensate the traveller for the duliness of a much longer district; but a quick succession of landscapes, many of which would be rendered famous in England, by the refort of travellers to view them. The country is all hill or valley; the hills are very high, and would be called with us mountains, if wafte and covered with heath; but being cultivated to the very tops, their magnitude is lessened to the eye. Their forms are various: they swell in beautiful semi-globes: they project in abrupt maffes, which inclose deep glens: they expand into amphitheatres of cultivation that rife in gradation to the eye: in fome places toffed into a thousand inequalities of furface; in others the eye repoles on scenes of the softest verdure. Add to this the rich robe, with which nature's bounteous hand has dreffed the flopes, with hanging woods of chefnut. And whether the vales open their verdant bosons, and admit the fun to illuminate the rivers in their comparative repose; or whether they be closed in deep glens, that afford a paffage with difficulty to the water rolling over their rocky beds, and dazzling the eye with the lustre of cascades; in every case the features are interesting and characteristic of the scenery. Some views of singular beauty rivetted us to the fpots; that of the town of Uzarch, covering a conical hill, rifing in the hollow of an amphitheatre of wood, and furrounded at its feet by a noble river, is unique. Derry in Ireland has fomething of its form, but wants fome of its richeft features. The water-scenes from the town itself, and immediately after passing it, are delicious. The immense view from the descent to Douzenach is equally magnificent. To all this is added the finest road in the world, every where formed in the perfect manner, and kept in the highest preservation, like the well ordered alley of a garden, without dust, fand, stones, or inequality, firm and level, of pounded granite, and traced with such a perpetual command of prospect, that had the engineer no other object in view, he could not have executed it with a more finished taste.

The view of Brive, from the hill, is so sine, that it gives the expectation of a beautiful little town, and the gaiety of the environs encourages the idea; but, on entering, such a contrast is sound as disgusts completely. Close, ill built, crooked, dirty, stinking streets, exclude the sun, and almost the air, from every habitation, except a few to-

lerable ones on the promenade. ____34 miles.

The 9th. Enter a different country, with the new province of Quercy, which is a part of Guienne; not near so beautiful as Limosin, but, to make amends, it is far better cultivated. Thanks to maize, which does wonders! Pass Noailles, on the second is of a high hill, the chateau of the Marshal Duke of that name. Enter a calcareous antry, and lose chesnuts at the same time.

In going down to Souillac, there is a prospect that must universally please: it is a bird's-eye view of a delicious little valley, sunk deep amongst some very bold hills that inclose it; a margin of wild mountain contrasts the extreme beauty of the level surface below, a scene of cultivation scattered with sine walnut trees; nothing can apparently

exceed the exuberant fertility of this fpot.

Souillac is a little town in a thriving state, having some rich merchants. They receive staves from the mountains of Auvergne by their river Dordonne, which is navigable eight months in the year; these they export to Bourdeaux and Libourn; also wine, corn, and cattle, and import salt in great quantities. It is not in the power of an English imagination to figure the animals that waited upon us here, at the Chapeau Rouge. Some things that called themselves by the courtesy of Souillac women, but in reality walking dunghills.—But a neatly dressed clean waiting girl at an inn will be looked for in vain in France.—34 miles.

The 10th. Cross the Dordonne by a ferry; the boat well contrived for driving in at one end and out at the other, without the abominable operation, common in Eng-

land, of beating horses till they leap into them; the price is as great a contrast as the excellence; we paid for an English whisky, a French cabriolet, one saddle-horse, and six persons, no more than 50s. (2s. id.) I have paid half-a-crown a wheel in England for execrable ferries, passed over at the hazard of the horse's limbs.—This river runs in a very deep valley between two ridges of high hills: extensive views, all scattered with villages and single houses; an appearance of great population. Chesnuts on a calcareous soil, contrary to the Limosin maxim.

Pals Peyrac, and meet many beggars, which we had not done before. All the country girls and women are without shoes or stockings; and the ploughmen at their work have neither fabots nor feet to their stockings. This is a poverty that strikes at the root of national prosperity; a large consumption among the poor being of more consequence than among the rich: the wealth of a nation lies in its circulation and confumption; and the case of poor people abstaining from the use of manufactures of leather and wool ought to be confidered as an evil of the first magnitude. It reminded me of the mifery of Ireland. Pass Pont-de-Rodez, and come to high land, whence an immense and singular prospect of ridges, hills, vales, and gentle slopes, rising one nother in every direction, with few masses of wood, but many scattered trees. At least forty miles are tolerably distinct to the eye, and without a level acre; the sun on the point of fetting, illuminated part of it, and displayed a vast number of villages and scattered farms. The mountains of Auvergne, at the distance of a hundred miles, added to the view. Pass by several cottages, exceedingly well built, of stone and slate, or tiles, yet without any glass to the windows; can a country be like to thrive where the great object is to spare manufactures? Women picking weeds into their aprons for their cows, another fign of poverty I observed, during the whole way from Calais. -30 miles.

The 11th. See for the first time the Pyrenees, at the distance of one hundred and fifty miles.—To me, who had never seen an object farther than sixty or seventy, I mean the Wicklow mountains, as I was going out of Holyhead, this was interesting. Wherever the eye wandered in search of new objects it was sure to rest there. Their magnitude, their snowy height, the line of separation between two great kingdoms, and the end of our travels altogether accounts for this effect. Towards Cahors the country changes, and has something of a savage aspect; yet houses are seen every

where, and one-third of it under vines.

That town is bad; the streets neither wide nor strait, but the new road is an improvement. The chief object of its trade and resource are vines and brandies. The true Vin de Cahors, which has a great reputation, is the produce of a range of vine-yards, very rocky, on a ridge of hills full to the south, and is called Vin de Grave, because growing on a gravelly soil. In plentiful years, the price of good wine here does not exceed that of the cask; last year it was sold at 10s. 6d. a barique, or 8d. a dozen. We drank it at the Trois Rois from three to ten years old, the latter at 30s. (1s. 3d.) the bottle; both excellent, full bodied, great spirit, without being siery, and to my palate much better than our ports. I liked it so well, that I established a correspondence with Mons. Andonry, the inn-keeper*. The heat of this country is equal to the production of strong wine. This was the most burning day we had experienced.

On leaving Caliors, the mountain of rock rifes so immediately, that it seems as if it would tumble into the town. The leaves of walnuts are now black with frosts that

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^{*} I fince had a barique of him: but whether he fent bad wine, which I am not willing to believe, or that it came through bad bands, I know not. It is however so bad, as to be item for folly.

happened within a fortnight. On enquiry, I found they are subject to these frosts all through the spring months; and though rye is sometimes killed by them, the mildew in wheat is hardly known;—a fact sufficiently destructive of the theory of frosts being the cause of that distemper. It is very rare that any snow falls here. Sleep at Ventillac.—22 miles.

The 12th. The fhape and colour of the peafants' houses here add a beauty to the country; they are foure, white, and with rather flat roofs, but few windows. The peafants are for the most part land-proprietors. Immense view of the Pyrenees before us, of an extent and height truly fublime: near Perges, a rich vale, that feems to reach uninterruptedly to those mountains, is a glorious scenery: one vast sheet of cultivation; every where chequered with those well built white houses;—the eye losing itself in the vapour, which ends only with that stupendous ridge, whose snow-capped heads are broken into the boldeft outline. The road to Caussade leads through a very fine avenue of fix rows of trees, two of them mulberries, which are the first we have feen. Thus we have travelled almost to the Pyrenees before we met with an article of culture which some want to introduce into England. The vale here is all on a dead. level; the road finely made, and mended with gravel. Montauban is old, bunker ill built. There are many good houses, without forming handsome streets. It is faid to be very populous, and the eye confirms the intelligence. The cathedral is modern, and pretty well built, but too heavy. The public college, the feminary, the bishop's palace, and the house of the first president of the court of aids are good buildings; the last large, with a most shewy entrance. The promenade is finely situated; built on the highest part of the rampart, and commanding that noble vale, or rather plain, one of the richeft in Europe, which extends on one fide to the fea, and in the front to the Pyrenees; whose towering masses, heaped one upon another, in a stupendous manner, and covered with fnow, offer a variety of lights and shades from indented forms, and the immensity of their projections. This prospect, which contains a semicircle of an hundred miles diameter, has an oceanic vastness, in which the eye loses itself; an almost boundless scene of cultivation; an animated, but confused mass of infinitely varied parts-melting gradually into the distant obscure, from which emerges the amazing frame of the Pyrenees, rearing their filvered heads far above the clouds. At Montauban, I met Captain Plampin, of the royal navy; he was with Major Crew, who has a house and family here, to which he politely carried us; it is fweetly fituated on the skirts of the town, commanding a fine view; they were so obliging as to refolve my enquiries upon fome points, of which a refidence made them complete judges. Living is reckoned cheap here; a family was named to us, whose income was supposed to be about fifteen hundred louis a-year, and who lived as handfomely as in England on 5000l. The comparative dearness and cheapness of different countries is a subject of considerable importance, but difficult to analize. As I conceive the English to have made far greater advances in the useful arts, and in manufactures, than the French have done, England ought to be the cheaper country. What we meet with in France, is a cheap mode of living, which is quite another confidera-—30 miles.

The 13th. Pass Grisolles, where are well built cottages without glass, and some with no other light than the door. Dine at Pompinion, at the Grand Soleil, an uncommonly good inn, where Captain Plampin, who accompanied us thus far, took his leave. Here we had a violent storm of thunder and lightning, with rain much heavier I thought than I had known in England; but, when we set out for Tolouze, I was immediately convinced that such a violent shower had never fallen in that king-

dom; for the deftruction it had poured on the noble scene of cultivation, which but a moment before was smiling with exurberance, was terrible to behold. All now one scene of distress: the finest crops of wheat beaten so flat to the ground, that I question whether they can ever rise again; other fields so inundated, that we were actually in doubt whether we were looking on what was lately land, or always water. The ditches had been filled rapidly with mud, had overslowed the road, and swept dirt and gravel over the crops.

Cross one of the finest plains of wheat that is any where to be seen; the storm, therefore, was fortunately partial. Pass St. Jorry; a noble road, but not better than in Limosin. It is a desert to the very gates of Tolouze; meet not more persons than if it

were a hundred miles from any town. ____31 miles.

The 14th. View the city, which is very ancient and very large, but not peopled in proportion to its fize: the buildings are a mixture of brick and wood, and have consequently a melancholy appearance. This place has always prided itself on its taste for literature and the fine arts. It has had a university fince 1215: and it pretends that its famous academy of Jeus Floraux is as old as 1323. It has also a royal academy of sciences, another of painting, sculpture, and architecture. The church of the Cordelliers has vaults, into which we descended, that have the property of preserving dead bodies from corruption; we faw many that they affert to be five hundred years old. If I had a vault well lighted, that would preferve the countenance and physiognomy as well as the flesh and bones, I should like to have it peopled with all my anceftors; and this defire would, I fuppose be proportioned to their merit and celebrity; but to one like this, that preferves cadaverous deformity, and gives perpetuity to death, the voracity of a common grave is preferable. But Toulouze is not without objects more interesting than academies; these are the new quay, the corn mills, and the The quay is of a great length, and in all respects a noble work: the canal de Brien. houses intended to be built will be regular like those already erected, in a stile aukward and inelegant. The canal de Brien, so called from the archbishop of Toulouze, afterwards prime minister and cardinal, was planned and executed in order to join the Garonne here with the canal of Languedoc, which is united at two miles from the town with the fame river. The necessity of such a junction arises from the navigation of the river in the town being absolutely impeded by the wear which is made across it in favour of the corn mills. It passes arched under the quay to the river, and one fluice levels the water with that of the Languedoc canal. It is broad enough for feveral barges to pass abreast. These undertakings have been well planned, and their execution is truly magnificent: there is however more magnificence than trade; for while the Languedoc canal is alive with commerce, that of Brien is a defert.

Among other things we viewed at Toulouze, was the house of Monf. du Barrè, brother of the husband of the celebrated countes. By some transactions, favourable to anecdote, which enabled him to draw her from obscurity, and afterwards to marry her to his brother, he contrived to make a pretty confiderable fortune. On the first floor is one principal and complete apartment, containing seven or eight rooms, fitted up and surnished with such profusion of expence, that if a fond lover, at the head of a kingdom's sinances, were decorating for his mistress, he could hardly give in large any thing that is not here to be seen on a moderate scale. To those who are sond of gilding here is enough to satiste; so much that to an English eye it has too gaudy an appearance. But the glasses are large and numerous. The drawing-room very elegant (gilding always excepted).—Here I remarked a contrivance which has a pleasing effect; that of a looking-glass before the chimnies, instead of those various screens

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unook neae, I used in England: it slides backwards and forwards in the middle of the room. There is a portrait of Madame du Barrè, which is said to be very like; if it really is, one would pardon a king some follies committed at the shrine of so much beauty.—As to the garden, it is beneath all contempt, except as an object to make a man stare at the efforts to which folly can arrive: in the space of an acre, there are hills of genuine earth, mountains of paste-board, rocks of canvass: abbies, cows, sheep, and shepherdess in lead; monkeys and peasants, assess and altars, in stone. Fine ladies and blacksmiths, parrots and lovers in wood. Windmills and cottages, shops and villages, nothing excluded except nature.

The 15th. Meet Highlanders, who put me in mind of those of Scotland; faw them first at Montauban; they have round flat caps, and loose breeches: "pipers, blue bonnets, and oat-meal, are found," says Sir James Stuart, "in Catalonia, Auvergne, and Swabia, as well as in Lochabar." Many of the women here are without stockings. Meet them coming from the market, with their shoes in their baskets. The Pyrenees, at fixty miles distance, appear now so distinct, that one would guess it not more than sisteen; the lights and shades of the snow are seen clearly.——30 miles.

The 16th. A ridge of hills on the other fide of the Garonne, which began at Toulouze, became more and more regular yesterday; and is undoubtedly the most distant ramification of the Pyrenees, reaching into this vast vale quite to Toulouze, but no farther. Approach the mountains; the lower ones are all cultivated, but the higher seem covered with wood: the road now is bad all the way. Meet many waggons, each loaded with two casks of wine, quite backward in the carriage, and as the hind wheels are much higher than the fore ones, it shews that these mountaineers have more sense than John Bull. The wheels of these waggons are all shod with wood instead of iron. Here, for the first time, see rows of maples, with vines, trained in sessions, from tree to tree; they are conducted by a rope of bramble, vine cutting, or willow. They give many grapes, but bad wine. Pass St. Martino, and then a large village of well built houses, without a single glass window.——30 miles.

The 17th. St. Gaudens is an improving town, with many new houses, something more than comfortable. An uncommon view of St. Betrand; you break at once upon a vale such deep enough beneath the point of view to command every hedge and tree, with that town clustered round its large cathedral, on a rising ground; if it had been built purposely to add a feature to a singular prospect, it could not have been better placed. The mountains rise proudly around, and give their rough frame to this exquisite little picture.

Cross the Garonne, by a new bridge of one fine arch, built of hard blue lime-stone. Medlars, plumbs, cherries, maples in every hedge, with vines trained.—Stop at Lauresse; after which the mountains almost close, and leave only a narrow vale, the Garonne and the road occupying some portion of it. Immense quantities of poultry in all this country; most of it the people salt and keep in grease. We tasted a soup made of the leg of a goose thus kept, and it was not nearly so bad as I expected.

Every crop here is backward, and betrays a want of fun; no wonder, for we have been long travelling on the banks of a rapid river, and must now be very high, though still apparently in vales. The mountains, in passing on, grow more interesting. Their beauty, to northern eyes, is very singular; the black and dreary prospects which our mountains offer are known to every one; but here the climate cloaths them with verdure, and the highest summits in sight are covered with wood; there is snow on still higher ridges.

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Quit the Garonne fome leagues before Sirpe, where the river Neste falls into it. The road to Bagnere is along this river, in a very narrow valley, at one end of which is built the town of Luchon, the termination of our journey; which to me has been one of the most agreeable I ever undertook; the good humour and good sense of my companions are well calculated for travelling; one renders a journey pleafing, and the other instructive.- Having now crossed the kingdom, and been in many French inns, I shall in general observe, that they are on an average better in two respects, and worse in all the reft, than those in England. We have lived better in point of eating and drinking beyond-a question, than we should have done in going from London to the Highlands of Scotland, at double the expence. But if in England the best of every thing is ordered, without any attention to the expence, we should for double the money have lived better than we have done in France; the common cookery of the French gives great advantage. It is true, they roaft every thing to a chip, if they are not cautioned; but they give fuch a number and variety of dilhes, that if you do not like fome, there are others to pleafe your palate. The defert at a French inn has no rival at an English one; nor are the liquors to be despifed.—We sometimes have met with bad wine, but upon the whole, far better than such port as English inns give. Beds are better in France; in England they are good only at good inus; and we have none of that torment, which is so perplexing in England, to have the sheets aired; for we never trouble our heads about them, doubtless on account of the climate. After these two points, all is a blank. You have no parlour to eat in; only a room with two, three, or four beds. Apartments badly fitted up; the walls white-washed, or paper of different forts in the fame room; or tapestry so old as to be a fit nidus for moths and fpiders; and the furniture fuch, that an English inn-keeper would light his fire with it. For a table, you have every where a board laid on crofs bars, which are fo conveniently contrived, as to leave room for your legs only at the end.—Oak chairs with rush bottoms, and the back univerfally a direct perpendicular, that defies all idea of rest after fatigue. Doors give music as well as entrance; the wind whistles through their chinks; and hinges grate discord. Windows admit rain as well as light; when shut they are not eafy to open; and when open not eafy to flut. Mops, brooms, and fcrubbingbrushes are not in the catalogue of the necessaries of a French inn. Bells there are none; the fille must always be bawled for; and when she appears is neither neat, well dressed, nor handsome. The kitchen is black with smoke; the master commonly the cook, and theless you fee of the cooking, the more likely you are to have a stomach to your dinner; but this is not peculiar to France. Copper utenfils always in great plenty, but not always well tinned. The miftrefs rarely classes civility or attention to her guests among the requifites of her trade. _____30 miles.

The 28th. Having been now ten days fixed in our lodgings, which the Count de la Rochefoucauld's friends had provided for us, it is time to minute a few particulars of our life here. Monficur Lazowski and myself have two good rooms on a ground floor, with beds in them, and a servant's room, for four livres (3s. 6d.) a-day. We are so unaccustomed in England to live in our bed-chambers, that it is at first awkward in France to find that people live no where else. At all the inns I have been in, it has been always in bed-rooms; and here I find, that every body, let his rank be what it may, lives in his bed-chamber. This is novel; our English custom is far more convenient, as well as more pleasing. But this habit I class with the acconomy of the French. The day after we came, I was introduced to the la Rochefoucauld party, with whom we have lived; it consists of the Duke and Duchess de la Rochefoucauld, daughter of the Duke de Chabot; her brother, the Prince de Laon and his Princes,

the daughter of the Duke de Montmorenci; the Count de Chabot, another brother of the Duchess de la Rochesoucauld; the Marquis d'Aubourval, who with my two sellow-travellers and myself, make a party of nine at dinner and supper. A traiteur serves our table at four livres a head for the two meals, two courses and a good desert for dinner; for supper one course and a defert; the whole very well served, with every thing good in season; the wine separate, at fix sous 3d.) a bottle. With difficulty the Count's groom sound a stable. Hay is little short of 5l. English per ton; cats much the same price as in England, but not so good; straw dear, and so searce, that very

often there is no litter at all.

The States of Languedoc are building a large and handsome bathing-house, to contain various feparate cells, with baths, and a large common room, with two arcades to walk in, free from fun and rain. The prefent baths are horrible holes, the patients lie up to their chins in hot fulphureous water, which, with the beaftly dens they are placed in, one would think fufficient to cause as many diffempers as they cure. They are reforted to for cutaneous cruptions. The life led here has very little variety. Those who bathe, or drink the waters, do it at half after five or fix in the morning; but my friend and myfelf are early in the mountains, which are here stupendous; we wander among them to admire the wild and beautiful feenes which are to be met with in almost every direction. The whole region of the Pyrenees is of a nature and aspect so totally different from every thing that I had been accustomed to, that these excursions were productive of much amusement. Cultivation is here carried to a considerable perfection in feveral articles, especially in the irrigation of meadows: we feek out the most intelligent peasants, and have many and long conversations with those who underfland French, which however is not the case with all, for the language of the country is a mixture of Catalan, Provençal, and French.—This, with examining the minerals (an article for which the Duke de la Rochesoucauld likes to accompany us, as he posfeffes a confiderable knowledge in that branch of natural history), and with noting the plants with which we are acquainted, ferves well to keep our time employed fufficiently to our tafte. The ramble of the morning finished, we return in time to dress for dinner, at half after twelve or one; then adjourn to the drawing-room of Madame de la Rochefoucauld, or the Countels of Grandval alternately, the only ladies who have apartments large enough to contain the whole company. None are excluded; as the first thing done by every person who arrives, is to pay a morning visit to each party already in the place; the vifit is returned, and then every body is of course acquainted at these assemblies, which last till the evening is cool enough for walking. There is nothing in them but cards, trick-track, chefs, and fometimes mufic; but the great feature is cards: I need not add, that I absented myself often from these parties, which are ever mortally infipid to me in England, and not lefs fo in France. In the evening, the company splits into different parties, for their promenade, which lasts till half an hour after eight; supper is served at nine; there is after it, an hour's conversation in the chamber of one of our ladies; and this is the best part of the day,—for the chat is free, lively, and unaffected; and uninterrupted, unless on a post-day, when the Duke has fuch packets of papers and pamphlets, that they make us all politicians. All the world are in bed by eleven.

In this arrangement of the day, no circumstance is so objectionable as that of dining at noon, the consequence of eating no breakfast; for as the ceremony of dressing is kept up, you must be at home from any morning's excursion by twelve o'clock. This single circumstance, if adhered to, would be sufficient to destroy any pursuits, except the most frivolous. Dividing the day exactly in halves, destroys it for any expedition, enquiry,

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enquiry, or bufiness that demands seven or eight hours attention, uninterrupted by any calls to the table or the toilette; calls which, after fatigue or exertion, are obeyed with refreshment and with pleasure. We dress for dinner in England with propriety, as the rest of the day is dedicated to ease, to converse, and relaxation; but by doing it at 11001, too much time is loft. What is a man good for after his filk breeches and stockings are on, his hat under his arm, and his head bien poudré? - Can he botanize in a watered meadow? - Can he clamber the rocks to mineralize? - Can he farm with the peafant and the ploughman?-He is in order for the converfation of the ladies, which to be fure is in every country, but particularly in France, where the women are highly cultivated, an excellent employment; but it is an employment that never relifies better than after a day spent in active toil or enimated pursuit; in something that has enlarged the fishere of our conceptions, or added to the flores of our knowledge. - I am induced to make this observation, because the noon dinners are customary all over France, except with persons of considerable fashion at Paris. They cannot be treated with too much ridicule or feverity, for they are absolutely hostile to every view of fcience, to every spirited exertion, and to every useful pursuit in life.

Living in this way, however, with feveral persons of the first fashion in the kingdom, is an object to a foreigner folicitous to remark the manners and character of the nation. I have every reason to be pleased with the experiment, as it assords me a constant opportunity to enjoy the advantages of an unaffected and polifhed fociety, in which an invariable fweetness of disposition, mildness of character, and what in English we emphatically call good temper, eminently prevail:—feeming to arife——at leaft I conjecture it, from a thousand little nameless and peculiar circumstances—not resulting entirely from the personal character of the individuals, but apparently holding of the national one. - Befides the perfons I have named, there are among others at our affemblies, the Marquis and Marchioness de Hautfort; the Duke and Duchess de Ville (this Duchess is among the good order of beings); the Chevalier de Peyrac; Monsieur l'Abbé Bastard; Baron de Serres; Viscountes Duhamel; the Bishops of Croire and Montauban; Monfieur de la Marche; the Baron de Montagu, a chefs player; the Chevalier de Cheyron; and Monfieur de Bellecomb, who commanded in Pondicherry, and was taken by the English. There are also about half a dozen young officers, and three or four abbées.

If I may hazard a remark on the conversation of French assemblies, from what I have known here, I should praise them for equanimity, but condemn them for insipidity. All vigour of thought seems so excluded from expression, that characters of ability and of inanity meet nearly on a par: tame and elegant, uninteresting and polite, the mingled mass of communicated ideas has powers neither to offend nor instruct; where there is much polish of character, there is little argument; and if you neither argue nor discuss, what is conversation?—Good temper, and habitual ease, are the first ingredients in private society; but wit, knowledge, or originality, must break their even surface into some inequality of feeling, or conversation is like a journey on an endless flat.

Of the rural beauties we have to contemplate, the valley of Larbouffe, in a nook of which the town of Luchon is fituated, is the principal, with its furrounding accompaniment of mountain. The range that bounds it to the north is bare of wood, but covered with cultivation; and a large village, about three parts of its height, is perched on a fleep, that almost makes the unaccultomed eye tremble with apprehension, that the village, church, and people will come tumbling into the valley. Villages thus perched, like eagles' nests on rocks, are a general circumstance in the Pyrenees, which appear to be wonderfully peopled. The mountain that forms the western wall of the valley,

valley, is of a prodigious magnitude. Watered meadow and cultivation rife more than one-third the height. A forest of oak and beech forms a noble helt above it; higher still is a region of ling; and above all snow. From whatever point viewed, this mountain is commanding from its magnitude, and beautiful from its luxuriant foliage. The range which closes in the valley to the east is of a character different from the others; it has more variety, more cultivation, villages, forests, glens, and cascades. of Gouzat, which turns a mill as foon as it falls from the mountain, is romantic, with every accompaniment necessary to give a high degree of picturesque beauty. There are features in that of Montauban, which Claude Loraine would not have failed transfuling on his canvals; and the view of the vale from the chefiut rock is gay and animated. The termination of our valley to the fouth is striking; the river Neste pours in inceffant cafcades over rocks that feem an eternal refistance. The eminence in the centre of a fmall vale, on which is an old tower, is a wild and romantic fpot; the roar of the waters beneath unites in effect with the mountains, whose towering fore'ls, finishing in fnow, give an awful grandeur, a gloomy greatness to the scene; and seem to raife a barrier of feparation between two kingdoms, too formidable even for armies to pass. But what are rocks, and mountains, and snow, when opposed to human ambition?—In the recesses of the pendent woods, the bears find their habitation, and on the rocks above, the eagles have their nests. All around is great; the sublime of nature, with imposing majesty, impresses awe upon the mind; attention is rivetted to the fpot; and imagination, with all its excursive powers, feeks not to wander beyond the fcene.

> Deepens the murmurs of the falling floods, And breathes a browner horror o'er the woods.

To view these scenes tolerably, is a business of some days; and such is the climate here, or at least has been since I was at Bagnere de Luchon, that not more than one day in three is to be depended on for sine weather. The heights of the mountains is such, that the clouds, perpetually broken, pour down quantities of rain. From June 26th to July 2d, we had one heavy shower, which lasted without intermission for sixty hours. The mountains, though so near, were hidden to their bases in the clouds. They do not only arrest the sleeting ones which are passing in the atmosphere, but seem to have a generative power; for you see small ones at first, like thin vapour rising out of glens, forming on the sides of the hills, and increasing by degrees, till they become clouds heavy enough to rest on the tops, or else rise into the atmosphere, and pass

away with others.

Among the original tenants of this immense range of mountains, the first in point of dignity, from the importance of the mischief they do, are the bears. There are both sorts, carnivorous and vegetable-eaters; the latter are more mischievous than their more terrible brethren, coming down in the night and eating the corn, particularly buck-wheat and maize; and they are so nice in choosing the sweetest ears of the latter, that they trample and spoil infinitely more than they eat. The carnivorous bears wage war against the cattle and sheep, so that no stock can be lest in the fields at night. Flocks must be watched by shepherds, who have sire-arms, and the assistance of many stout and sicree dogs: and cattle are shut up in stables every night in the year. Sometimes, by accident, they wander from their keepers, and if lest abroad, they run a considerable rique of being devoured.—The bears attack these animals by leaping on their back, force the head to the ground, and thrust their paws into the body in the

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violence of a dreadful hug. There are many hunting days every year for destroying them; several parishes joining for that purpose. Great numbers of men and boys form a cordon, and drive the wood where the bears are known or suspected to be. They are the fattest in winter, when a good one is worth three louis. A bear never ventures to attack a wolf; but several wolves together, when hungry, will attack a bear, and kill and eat him. Wolves are here only in winter. In summer, they are in the very remotest parts of the Pyrenees—the most distant from human habitations: they are here, as every where else in France, dreadful to sheep.

A part of our original plan of travelling to the Pyrenees, was an excursion into Spain. Our landlord at Luchon had before procured mules and guides for persons travelling on business to Saragossa and Barcelona, and at our request wrote to Vielle, the first Spanish town across the mountains, for three mules and a conductor, who speaks French; and being arrived according to appointment, we set out on our ex-

pedition.

JULY 10. My friend and myfelf are mounted on the two best mules, which are, however, but finall; his fervant, with our baggage, is on a third, and the owner of the mules, our conductor, marches on foot, boatting that his legs are good for fifteen leagues a day; this is his business; but we are not a little disappointed to find his French is pretty much that of a Spanish cow, if I may use a common French expression. From Bagnere to Luchon, we afcended inceffantly, and, in our way, viewed the pastures in the French mountains, which the Spanish flock-masters hire for their sheep in summer; which in emigrating, make thirteen days march every year from the lower parts of Catalonia. The management of these slocks is an object which must be explained elfewhere. Having fatisfied ourfelves with the examination, we returned to the direct road for Vielle, which quits the river Nelte, about a league from Bagnere; it enters foon after one of the most wooded regions of the Pyrenees, and, at the same time, the most romantic. The way fo bad, that no horses but those of the mountains could pass it; but our nules trod fecurely amidst rolling stones on the edges of precipices of a tremendous depth; but though fure footed, they are not free from flumbling; and, when they happen in those situations to trip a little, they electrify their riders in a manner not altogether fo pleafantly as Mr. Walker. Pass the frontier line which divides France from Spain, and still rising on the mountains, we see the Spanish valley of Aran, with the river Garonne winding through it in a beautiful manner. The town of Boltofe and the Spanish custom-house are at the foot of the mountains. This valley of Aran is richly cultivated; nothing fcarcely can be finer than the view of it from heights fo great as to render the common objects interesting; the road leads under trees, whose natural arches prefent, at every ten paces, new landscapes. The thick woods give fine masses of shade: the rocks large, and every outline bold; and the verdant vale, that is spread far below at your feet, has all the features of beauty, in contrast to the sublimity of the surrounding mountains. Defcend into this vale, and halt at our first Spanish inn. No hay, no corn, no meat, no glass in the windows; but cheap eggs and bread, and some small trout, 15s. (7d. English).

Follow hence the Garonne, which is already a fine river, but very rapid; the inhabitants of the mountains float trees to their faw-mills, which are at work cutting boards. The whole valley of Aran is well cultivated and highly peopled; it is a journey of eight hours, or about forty English miles in length, and has thirty-two villages, or rather little towns, which have a pretty appearance, the walls being well built, and the roofs well flated; but on entering, the spectacle changes at once, for we found them the abodes of poverty and wretchedness; not one window of glass to be seen in a whole town; fcarcely.

fearcely any chimnies; the rooms of both floors vomiting the smoke out of the windows.

Arrive at Vielle, the capital of this valley, and the passage from the part of France we had left, to Barcelona; a circumstance which has given it some trilling resources. We were here informed, that we could not go into Spain without a passport: we waited, therefore, on the commandant, lieutenant-colonel and knight of Calatrava, who presides over the whole valley, and its thirty-two towns; his house was the only one we had seen in this part that had glass windows. In his anti-room, under a canopy of state, hung the king's picture. We were received with the Spanish formality, and assured, that a sew months ago there was an order to fend every foreigner, found without a passport, to the troops, which shews well enough the number of foreigners here. On each side of his excellency's bed was a brace of pistols, and a crucifix in the middle; we did not ask in which he puts the most confidence.

At Bagnere we were told that the inn at Vielle was good. We found the lower floor a flable, from which we mounted to a black kitchen, and, through that, to a baking room, with a large batch of loaves for an oven, which was heating to receive them. In this room were two beds for all the travellers who might happen to come; if too numerous, flraw is fpread on the floor, and you may refl as you can. No glafs to the windows, and a large hole in the cicling to clamber into the garret above it, where the windows were without flutters to keep out either rain or wind. One of the beds was occupied, fo that my companion laid on a table. The house, however, afforded eggs for an omlet, good bread, thick wine, brandy, and fowls killed after we arrived. The

people very dirty, but civil. ____26 miles.

The 11th. Left Vielle, and took that route to Barcelona, which is by the parte (passage across the mountains) of Piass: another somewhat shorter being represented as exceedingly steep and difficult, and the country to that city worse. Pass several of the thirty-two villages of the valley of Aran, that croud on each other, so that the population must be very great. It results here, from the division of property, and from the plenty of

cattle and fuel yielded by the mountains belonging to every parith.

Pass Arteas and Jasa; cross the river that falls into the Garonne; there is a fine view of the mountains over the former of these places, of wood, rock, and snow. The trees floating down the Garonne flrike their ends against the rocks in it, and make a most fingular noife, very much like thunder. País Salardeau and Tradoze, which is the last village of the valley, and near it the source of the river Garonne to the left; but a ftream to the right, which we passed, seems rather larger. All the villages we have seen appear equally wretched; chimnies too great a luxury to look for in any of them. Vaft rocks of granite are rolled promifeuoufly from the mountains, and innumerable fprings pour down their fides. We then mounted to the very top of the Pyrenees, much above fome of the remaining flow, and from the fummit have a tremendous view of ridges of mountains, one beyond another, in Catalonia, many of them with fnowy tops, to the diffance of fifty or fixty miles. It took us four hours and three quarters to get to the top of the highest ridge; yet when we began to ascend, we must have been, if we may judge from the rapidity of the Garonne for feveral hundred miles from hence to Bourdeaux on fome of the highest land in Europe. No wood at the top, but pasturage, amongft rocks of micaceous fchiftus, for great herds of cows and oxen that breathe the pure air of this elevated region.

The fprings we now meet with flow towards the Mediterranean; pass a church that stands by ittelf in the descent, and a beautiful cascade of five or fix different falls, which pour down a torrent not less than five hundred feet amongst wood; a vast rock above

it; the whole a great but favage view. The trees here (pines) are finer than on the French hills; they are all cut for the Toulouse market, being carried over the mountains, and floated down the Garonne; from which we may draw conclusions on the com-

parative demand of the two kingdoms.

País a fpot where an earthquake threw down part of a mountain, stopped a stream, and formed a large pond: it must have been a dreadful convulsion, for the spot is now a waste of immense fragments of rock, large as cottages, that are tumbled about in such ruinous confusion as to be truly horrible to view. The tradition is, that four men and their mules were buried under them. Come to the valley of Esteredano, where wheat and rye are cut. Every scrap on the descent is cultivated; it commands an extensive savage view of mountains, with patches of culture scattered about the declivities. The

prospect down the vale beautiful. Cross an arch at the junction of two rivers, on which rafters are now formed of plank and trees, and floated down. Reach Scullów; the inn fo bad, that our guide would not permit us to enter it; we therefore went to the house of the curc. A scene followed fo new to English eyes, that we could not refrain from laughing very heartily. As our reverend host had a chimney in his kitchen, we did not quarrel with the want of glass in his windows: he ran to the river to catch trout; a man brought fome chickens, that were put to death on the spot. For light, they kindled splinters of pine, and two merry wenches and three or four men collected to stare at us, as well as we at them, were prefently bufy to fatisfy our hunger. They gave us red wine, fo dreadfully putrid of the boraccio, that I could not touch it; and brandy, poisoned with annifeed. What then were we to do? feeing our diffres, they brought out a bottle of rich, excellent white wine, refembling Mountain; all then was well: but when we came to examine the beds, there was but one to be found. My friend would again do the honours, and infifted on my taking it: he made his on a table, and what with bugs, fleas, rats, and mice, flept not. I was not attacked; and though the bed and a pavement might be ranked in the fame class of softness-fatigue converted it to down. This town and its inhabitants appeared equally wretched; the finoke holes, instead of chimnies, the cotal want of glass windows, the chearfulness of which, to the eye, is known only by the want; the dress of the women all black, with cloth of the same colour about their heads, and hanging half down their backs, no shoes, no stockings; the effect, upon the whole, as dismal

and favage as their rocks and mountains.—32 miles.

The 12th. The hills on each fide are now almost close, and just admit the river, the road, and a scrap of meadow. The rocks lamellated schistus, some micaceous. Lavender, for the first time, spontaneous. Pass Briasca, a village perched on a mountain like an eagle's nest. Come to Laboursel, where is an iron work, steel and iron made at the same time, and the furnace blown by the fall of water simply, without bellows. The water falls about ten feet, and, by its motion, drives the air into a fort of tunnel, which points to the centre of the surnace; the bottom of the mass of melted metal is steel; the middle of it fost, and the upper part hard iron. They burn charcoal made of pine wood. Pass Rudáis on the top of a rocky mountain, and come presently to vines and fruit-trees, yet snow in sight. As we descend to the vale, every spot is cultivated that is capable of it. Cross the river to Realp, a long town with many shops, in which hemp fabrics seem a principal article. Hedges of pomegranates in blossom. Dine at a dreadful auberge, which, instead of fatisfying, offended all the senses we were masters of.

Hitherto in Catalonia, we have feen nothing to confirm the character given of that province; for fearcely any thing has a tolerable appearance; the towns and the country appear equally poor and miferable.

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Come to Jaré, whose environs wear a better countenance, on account of an immense falt-work belonging to the king. Here first meet with olives, and going up the mountain, which is all of pudding-stone, find it cut into terraces supported by walls, and planted

with vines, mulberries, and olives.

The road then led through a pass in the mountains, which presented, I think, without exception, the most striking scene that I had ever beheld. I remember the impression that the ocean made on me the first time I saw it, and believe it to have been weaker than this; I shall not spend many words in attempting to describe what the pencil itself in the hands of a master would fail to convey an adequate idea. The pass is above a mile long; the rocks feem rent afunder to make way for the river, which entirely fills the bottom of the chasm. The road was cut out of the rock, and was wrought with cumpowder, a work of prodigious labour and expense. It passes on heights that vary the scene, and that give a depth below the eye enough to be interesting. The mountains of flone, which rife on either fide, are the most tremendous in their height, magnitude, and pendent form, that imagination can conceive. Were all the rocks of England piled on one another, they would form but pigmy heaps, compared with these gigantic and flupendous masses. Rocks are commonly, even in their most bold appearances, detached parts of mountains; and, however great in themselves, have malles above them, which lessen their essect. It is otherwise here: if we suppose the skeletons of mountains laid bare to the eye, it will be but a vague idea. Valences of fize, perpendicularity of form—pendant—and protruding—every circumstance that can give a power to inanimate nature, to command and arrest attention, is spread forth with an imposing magnificence through every feature of this fublime fcenery.

Pass Coolagase, the seatures of the country now begin to relax; the mountains are not so high, and the vales are wider. Arrive at la Pobla, after a satiguing journey of thirty-six English miles, more than half of which, as in general, we made on foot. Here we fared sumptuously, for report made the inn so bad, that we took resuge with a shopkeeper. It seems an extraordinary circumstance, that in these parts of Spain you ride to the door of a private house, desire lodging and food, and pay of course what they demand. However, it must always be taken into the account of our fare, that the wine of all the country is so possence with the boraccio, that water is the best beverage, unless annifeed brandy should be to your taste. Sallads also, a principal dish with them, are not eatable, by reason of the oil of the country being strong and rancid; a quality which the inhabitants seem to think essential to good oil, for they every where gave it the highest praises. This town has some good houses with glass windows; and we saw a well dressed young lady, attended in a gallant manner by two monks.

36 miles.

The 13th. Leave la Pobla, and crofs the river, which is fixty yards wide; it compensates, by the use made of its waters in irrigation, the mischief it does in floods, for we passed two large tracks destroyed by it. The mountains around of bold and interesting features; the country in general a mixture of cultivation and walle, for some space pleasing enough to the eye; but they have no meadows, to that our mules have met with nothing like hay, straw and barley are their food; and they tell us, that all over Spain it is the same thing, with some exceptions in watered lands for lucerne. Much corn threshing every where.

The road leads by Monte Efquieu, the whole of which confifts of a white flone and argillaceous marle. Look back over a great profpect, but deflitute of wood. Ourcafó a poor place: there, as every where elfe, the first sloor is a slable, which is cleaned out not more than once or twice a year, when the land is ready to receive the dung.

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and caló med mg. The The delicious avia given to the rest of the house, in so hot a climate, may be conjectured: rising to the kitchen and the chambers, it there meets with such a variety of other unsavory effences, as to form compounds sufficient to puzzle the most dextrous of the aërial philosophers to analize. All their white wine here is boiled. Descend mountains terraced for olives, which grow well on rocks, but add no beauty to them; insomuch that cloathing a country with the most ugly of all trees adds nothing to the pleasure of the eye.

Pass in fight of St. Roma, and cross a district of shells, and a large waste entirely co-

vered with lavender.

Pass up a hill which commands a vast prospect of distant mountains, W. S. W., they are in Arragon; very high; and seen one beyond another to a great distance; also the showy ones of the Pyrences which we have left. Following the road, we see it opening to an immense view of what at first appears to be a plain, a great range of country towards the sea; but it is all broken in mountainous ridges, which seem low, merely on comparison with the greater heights from which we view. The Pyrenees in one great chain to the left, and the mountains of Tortosa to the right. Descend to Fulca, where we stop for the night at an inn kept by a considerable farmer, and meet, for Spain, with tolerable accommodation. We had here, in the evening, a most tremendous tempest. The lightning which I have seen in England has been a mere glimering, compared with the dreadful corruscations of this ardent and electric atmosphere. A range of the Pyrenees was in sight for one hundred miles in a line; the forked slashes of the lightning darted in streams of fire to the length of half that extent, and much of it from an immense height. The colour was of the brightest whiteness; the scene was great, awful and sublime.——28 miles.

The 14th. In the morning the hemisphere was all heavy with clouds, and some rain fell; we expressed apprehensions of being wet, but our landlord said we should have a very sine day; we had considence, and it proved a clear burning one.

Here I may observe, that in above one hundred miles in Catalonia, we have seen but two houses that appeared decidedly to be gentlemen's, one the governor's at Viella, and the other in the town of La Pobla; and in the same line of country not more than one acre probably in two hundred is cultivated. Thus far, therefore, we have experienced an entire disappointment in the expectation of finding this province a garden.

Pass the side of a mountain covered with rosemary, box, and brambles, and descend into a rich vale to the town of Pous. Cross the river Segre by a most commodious ferry boat, much better executed and contrived for carriages and horses, than any I have seen in England. I have crossed the Thames, the Severn, and the Trent, but never saw any in which the horses were not forced to leap through a narrow cut in the side of the boat to the imminent danger of being launed: and I have known both cows, oxen, and horses killed in the operation. A carriage may be driven in and out of this ferry boat without taking off a horse, or a person moving from his seat. The boat crosses the river by a great rope passing over a lanthorn wheel The care and attention given to irrigation here cannot be exceeded. Much silk winding.

They thresh their corn by driving mules in the oriental method on a circular floor of earth in the open air; a girl drives; three or four men turn the straw, move it away, and supply the floor.

Pass a waste of marle, with strata of tale in some places clear and transparent, shining, and breaking into thin slakes.—Deferts for several miles. Pass Ribelles, a vilvou. IV.

lage whose white church and houses, on the pinnacle of a rocky hill, have a singular cliect in the midst of an uncultivated dreary tract. Dine at Senavia; the day excessively hot, and the slies so innumerable, as to be a perfect plague. They have a good contrivance for keeping them off the table you eat at, which is a moveable and very light frame of canvas, suspended from the cicling by two pivots, and a girl keeps pulling it backwards and forwards while you are at table; the motion it gives the air drives off the slies. Where this invention is not adopted, she uses a hand-shapper for the same purpose, fanning in a droll manner, and far from disagreeable, when the girl is pretty. Pass many watered grounds, with peaches, apples, and ripe pears. Pomegranates in the hedges as large now as walnuts in the shell. To Biosca mostly defert hills, but with some broad vales. No where any wood to be seen, except olives, and evergreen oaks, which are almost as sad as olives. Towards Torá the country is more cultivated, and has some scattered houses, which I note as a new circumstance. Pass Castle Follit. The country improves to Calas, where we arrived after a burning journey of forty English miles, having been fourteen hours on our mules.——40 miles.

The 15th.—Sunday. To mass at four in the morning: the church almost full of muleteers; it was evident that we were in Spain, from the fervency of devotion with which they beat their breasts at some of the responses in the service. How far this violent attention to religion is connected with the waste state of their province, I shall leave to others to determine. One thing, which surprised me a good deal, was seeing great numbers of men going out of town with reap-hooks to cut their corn, just as on any other day; this must be with the leave of their priests; and to give such permission.

fpeaks more liberality than I had been taught to expect.

Cross a great waste, and mount a hill, from whence an extensive view over a naked country; and, for the first time, we see Montserrat, the outline of which is interesting. Dine at Camprat, in the midst of a rocky country, of a savage aspect, with so many wastes, that not one acre in an hundred is cultivated. Arrive at the foot of Montserrat, which, from the description given of it by Mr. Thickness, was one object of our

journey.

It is a remarkably isolated mountain, but of an immense basis. An admirable winding road is made, by which we mounted to the convent; to make this way was a great effort in a country where so few good roads are to be found. Much of this is hewn out of the live rock. In other respects, it is one of the most singular in the world. On the right hand is a wall of mountain fringed with wood, at the top of which are those stupendous rocks, which render it famous: to the left a precipice horrible for depth, but all covered with plants, which in England are sought with anxiety and expence for adorning shrubberies and gardens; and vegetation here has the luxuriance which may be expected in one of the sincest climates in the world. The road so level, and these beautiful plants so thick, that they altogether resemble the alley of a decorated ground. The scenery on which you look is every where uncommon; such a consustion of shades and masses; such a tumult of forms, that the eye wanders with a kind of amazement from part to part, without being able to repose in the quiet command of any difficient object.

We arrived at the convent in time for the evening hymns and music. The church is splendid, some of the pictures sine, and the multitude of offerings of diamonds, rubies, and all other precious slones, with the quantity of gold and silver lamps, vases, &c. are the last objects for me to dwell on, since they never raise any other emotion in my bosom than of disgust. I hate the folly that gives; and if the monks are honest, I hate

the folly that receives.

On our arrival we were conducted to a neat, plain apartment in the convent, of two rooms furnished with mere necessaries, and we were supplied by the servants with such food and wine as we requested, at a very moderate expense. To this useful species of

hospitality, we were obliged for a comfortable night's rest. ____27 miles.

The 16th. The principal object which had induced us to take Montferrat in our way, was the amazing prospect commanded from the top of the mountain, and from the various hermitages described by Mr. Thickness. This morning we walked up the hill, but the weather proved fo perverfe to our views, both in mounting and descending, that we were the whole time in the clouds. I should most willingly have staid two or three days here, and waited for a better time; but my friend was in fuch a hurry to return to Bagnere to the Count de la Rochefoucauld, that we must have separated, had I done it. In fuch tours as these, it is always best to take a superfluity of time; a thing very difficult to do when one travels in company; and that of Monf. L. was much too valuable and interesting to me to allow such a question for a moment. All we could do in our elevated fituation, was to mortify ourselves with imagining the prodigious prospect before us, without a possibility of seeing five hundred yards, for the clouds were beneath as well as around us. We stopped at one of the hermitages, the inhabitant of which, a Maltefe of a gentleman-like deportment and manners, received us hospitably and politely, setting out bread, wine, and fruit. He lamented our ill luck, telling us that the island of Majorca was distinctly to be seen from his little garden, which we viewed with pleasure, but should have been better pleased to have seen Majorca. But though the distant prospect was thus excluded, we had the opportunity to examine and admire the uncommon and striking form of the rocks, of which this most interesting mountain is composed; the whole feems one vast mass of pudding stone.

Leave the convent, and take the road for Barcelona, which, in richness of vegetable accompaniment, is inferior to that by which we came; we were several miles descending. Pass Orevoteau, where is a hedge of aloes four feet high: here we are in a high road, for we meet for the first time a cabriolet. Pass a wretched stony desert, which yields only aromatic plants, scattered with dismal evergreen oaks. Esparagara is the first manufacturing town we met with; woollen cloths, stuffs, and laces: the town is near a mile long. Near Martorell, see the triumphal arch, said to be built by Annibal; it has been lately repaired. In that town every one is employed in lace making; they have, however, another occupation not quite so agreeable to the eye, that of picking vermin out of each other's heads, in which numbers of them were employed; nor can any thing be more slinking or slithy than their persons, or more dirty than their houses: to view either, is enough to impress the idea, that cleanliness is one of the first of the virtues, and deubly so in such a hot climate. No new houses in any of these towns. The country is disagreeable, and rendered worse by many beds of torrents, without a drop of water; arid and hurtful to the eye. Apricots, plumbs, melons, &c. ripe,

and fold in the ffreets.

Come to a noble road, which they are making at the expence of the king; fifty or fixty feet wide, and walled on the fide to support the earth, of which it is formed. The country now is far more populous and better built, many vines, and much cultivation.

It will probably be found, that the great reputation of this province has arisen from the improvements in the lower, flat, and irrigated parts; if so, it ought to be discriminated; for by far the larger part of it is mountainous, not less in proportion, I should conceive, than seven-eighths. Pass a large paper mill; and continuing on the

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fame fine road, join another equally great and well made, that leads to Villa Franca. Turn to the left for Barcelona, and crofs a bridge of red granite, a folid, durable, and noble work, four hundred and forty paces long; but, though built only eight years ago, is in a bad and inelegant stile. Now meet a great number of carts and carriages, drawn by very fine mules, and mark every appearance of approaching a great city. Within two or three miles of it, there are many villas and good buildings of all forts, spreading to the right and left, and feen all over the country. I have been at no city fince we left Paris, whose approach carries such a face of animation and cheerfulness; and confidering Paris as the capital of a great kingdom, and Barcelong as that of a province only, the latter is more firiking beyond all comparison. This noble road does honour to the prefent king of Spain; it is carried in an even line over all narrow vales, fo that you have none of the inconveniencies which otherwife are the effect of hills and declivities. A few palm trees add to the novelty of the profpect to northern eyes. The first view of the town is very fine, and the fituation truly beautiful. The last half mile we were in great haste to be in time for the gates, as they are flut at nine o'clock. We had had a burning ride of forty miles, and were a good deal fatigued, yet forced to undergo a ridiculous fearch, as every thing pays an entrée to government ou going into the town; and we had ftill two miles I believe to pass, first to the French crown, which inn was full, and then to La Fonde, where we found good quarters.

My friend thought this the most fatiguing day he had ever experienced: the excessive heat oppressed him much; and, indeed, travellers in general are much more prudent than to ride during the whole day in the middle of July, choosing rather to expose themselves to fatigue here in the morning and evening only. But after a succession of dog holes, with perpetual starving and mortification in the mountains, the contrast of this inn was great. It is a very good one, with many waiters, active and alert as in England. A good supper, with some excellent Mediterranean sist, ripe peaches; good wine; the most delicious lemonade in the world; and good beds, all tended to revive us; but Mons. Lazowski was too much fatigued for enjoying them.

---40 miles.

The 17th. View the town, which is large, and to the eye, in every street, remarkably populous: many of them are narrow, which may be expected in an old town; but there are also many others broader, with good houses; yet one cannuot on the whole confider it as well built, except as to public edifices, which are erected in a magnificent flile. There are fome confiderable openings, which, though not regular fquares, are ornamental, and have a good effect in fetting off the new buildings to the best advantage. One quarter of the city, called Barcelonetta, is entirely new, and perfectly regular; the flrcets cutting each other at right angles; but the houses are all fmall and low, being meant for the refidence of failors, little shop keepers, and artizans: one front of this new town faces the quay. The streets are lighted, but the dust so deep in some of them, especially the broader ones, that I know not whether they are all paved. The governor's house and the new fountain are on a scale, and in a file, which shews that there are no mean ideas of embeliishment here. The royal foundery for cannon is very great. The building fpacious, and every thing feems executed in a manner that proves no expence was fpared. The guns cast are chiefly brass: they are folid; and some twenty-four pounders boring; perhaps in all mechanics the most curious operation, and which can never be viewed without paying some homage to the genius that first invented it. In time of war three hundred men are employed here; but at prefent the number is not confiderable.

But the object at Barcelona which is the most striking, and which, according to my knowledge at least, has no where a rival, is the quay. The design and execution are equally good. I guess it about half a mile long. A low platform of stone is built but a few feet above the water, close to which the ships are moored; this is of breadth sufficient for goods and packages of all forts in loading and unloading the vessels. A row of arched warehouses open on to this platform, and over those is the upper part of the quay on a level with the street; and for the convenience of going up or down from one to the other, there are gently sloping ways for carriages, and also stair-cases. The whole is most solidly erected in hewn stone, and sinished in a manner that discovers a true spirit of magnificence in this most useful fort of public works. The road by which we travelled for several miles—the bridge by which we passed the river—and this quay, are works that will do lasting honour to the present king of Spain. There are now about 140 ships in the harbour; but the number sometimes much

larger.

It is impossible to view such admirable works as the quay of Barcelona, without regretting the enormous fums wasted in war and bloodshed. No quarrel happens between two nations, but it costs twenty such quays; a thousand miles of magnificent road; an hundred bridges; the pavement, lights, fountains, palaces, and public ornaments of fifty cities. To tell a prince or a parliament (the latter wants this lesson to the full as much as the former), that a war is as abfurd as it is cruel, for it will cost fo much money in figures, makes not the leaft impression; they never see the money, and the expence is of fomething ideal; but to tell the king of Spain that it would coft the Efcurial, St. Ildefonfo, his palace at Madrid, and all the roads in his kingdom, and he would think very feriously before he engaged in it. To reason with a British parliament, when her noify factious orators are bawling for the honour of the British lion, for the rights of commerce, and freedom of navigation; that is, for a war—that fuch a war will coft an hundred millions sterling, and they are deaf to you. But let it cost them those roads on which they roll so luxuriously, the public bridges, and the great edifices that decorate the capital, and our other cities, if the members were willing at fuch a price to hazard a war, the people would probably pull down their houses. Yet the cases are precisely the same; for if you spend the money that would form and build fuch things, you in effect fpend the things themselves. A very little calculation would shew, that the expence of our three last wars, which had no other effect whatever but to spill blood and fill gazettes, would have made the whole island of Great Britain a garden; her whole coast a quay; and have converted all the houses in her towns into palaces, and her cottages into houses. But to return.

The manufactories at Barcelona are confiderable. There is every appearance as you walk the fireets of great and active industry; you move no where without hearing the creak of stocking engines. Silk is wrought into handkerchiefs, though not on so great a scale as at Valencia; stockings, laces, and various stuffs. They have also some woellen stabilities, but not considerable. The chief business of the place is that of commission; the amount of the trade transacted is considerable, though not many ships

belong to the port.

The industry and trade, however, which have taken root, and prospered in this city, have withstood the continued system of the court to deal severely with the whole province of Catalonia. The samous efforts which the Catalans made to place a prince of the house of Austria on the throne of Spain, were not soon forgotten by the princes of the house of Bourbon, to their dishonour. Heavy taxes have been laid on the people; and the whole province continues to this day disarmed; so that a nobleman cannot

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wear a fword, unless privileged to do it by grace or office; and this goes fo far, that in order to be able to shew this mark of distinction, they are known to get themselves enrolled as familiars of the inquifition, an office which carries with it that licence. I note this correctly according to the information given me; but I hope the person who gave it was miltaken. For the nobility to floop to fuch a meanness, and the court to drive men to such unworthy means of distinction, fourscore years after their offence, which was fidelity to the prince whom they esteemed their lawful sovereign, such an aft reflects equal dishonour upon the nobility and the crown. The mention of the inquifition made us enquire into the prefent state of that holy office, and we were informed, that it was now formidable only to perfons of very notorious ill fame; and that whenever it does act against offenders, an inquisitor comes from Madrid to conduct the process. From the expressions, however, which were used, and the instances given, it appeared that they take cognizance of cases not at all connected with faith in religion; and that if men or women are guilty of vices, which render them offenfive, this was the power that interpoled; an account, in my opinion, by no means favourable for the circumstance, which was supposed most to limit their power, was the explicit nature of the offence, viz. being against the Catholic faith, and by no means against public morals, to fecure which is an object for very different judicatures in every

The markets here are now full of ripe figs, peaches, melons, and the more common fruits in great profusion. I bought three large peaches for a penny, and our laquais de place faid, that I gave too much, and paid like a foreigner; but they have not the flavour of the fame fruit in England. In the gardens there are noble orange trees loaded with fruit, and all forts of garden vegetables in the greatest plenty. The climate here in winter may be conjectured from their having green peafe every month in the

vear.

View the very pretty fort to the fouth of the town, which is on the fumnit of a hill that commands a vaft prospect by sea and land. It is exceedingly well built and well kept. Notwithstanding this fort to the south, and a citadel to the north of the town, corsairs in time of war have cut fishing vessels out of the road, and very near the

fhore.

In the evening to the play; the theatre is very large, and the feats on the two fides of the pit (for the centre is at a lower price) extremely commodious; each feat is feparate, fo that you fit as in an elbow chair. A Spanish comedy was represented, and an Italian opera after it. We were surprized to find clergymen in every part of the house; a circumstance never feen in France. Twice a week they have an Italian opera, and plays the other evenings. In the centre of the pit on benches the common people feat themselves. I saw a blacksmith, hot from the anvil, with his shirt sleeves tucked above his elbows, who enjoyed the entertainment equally with the best company in the boxes, and probably much more. Every well dressed person was in the French sashion; but there were many who still retained the Spanish mode of wearing their hair without powder, in a thick black net which hangs down the back; nothing can have a worse effect, or appear more ofseasive in so hot a climate.

The 18th. On leaving the town, we were fearched again, which feems both useless and burthensome. Enter immediately an extraordinary scene of watered cultivation, so fine, that I suppose it has given the general reputation to the whole province. The Indian sig, called here sigua de Maura, grows six or seven feet high, very branching and crooked; the arms at bottom as thick as the thigh of a common man; these and many aloes in the hedges. At Ballale, two hours from Barcelona, meet with the

first

ir, that first vineyards; but the hills here, for the most part, come down to the sea; and where ınfelves they do not, the vale is not more than half a mile wide. Lycium in the hedges; licence. oranges in the gardens; a few palm trees with vines around them. All here enclosed, on who and the men mending gaps in their hedges. The appearance of industry on this coast ourt to is as great as possible. Numbers of fishing boats and nets, with rows of good white houses on the sea side; and while the men are active in their sisheries, the women are equally bufy in making lace. Dine at Gremah; many large villages and feattered houses all the way. Wherever there is an opening in the mountains, more distant and flill higher ones are feen; a circumstance which unites with the vast view from Montferrat, and shews that all behind is mountainous, and that the vales are no where large. Pass a valley, part highly cultivated, but the rest for a quarter of a mile of breadth totally ruined by a torrent. Reach Martaró, a large town of white and clean well built houses, the streets crossing each other at right angles. The inhabitants appear exceedingly indultrious; there are fome flocking engines and lace-makers at every corner. Every house has one large door, which serves both for door and window to that room; an undoubted proof of the warmth of the climate. I am forry to add, that here also the industry of catching vermin in each other's heads is very active.

Pass Arenys, a large town, where ship-building feems a business of some consequence: making thread lace universal here; the thread comes from France. Canet, another large town, employed in ship-building, fishing, and making lace. All these towns are well built, with an equal appearance of general industry, and its inseparable companion, private comfort. Every scrap of flat land well cultivated, and the hills co-

vered with vines.

At Callella, a large town like the former, full of industry, but the inn no better than in the mountains, a stinking, dirty, dreadful hole, without any thing to eat or drink but for muleteers; yet we are now in the high road from Paris to Madrid.-36 miles.

The 19th. Leave Callella, and in less than a league come to Pineda, another large town, and pass Malgrat, which is not so well built as the preceding, but much lace

The road here turns from the fea into an enclosed woodland. Pomegranates make very fine thick hedges. There are old castles on the hills to defend the coast against the Africans. Houses scattered every where, a feature essential to a fine country, and an agreeable landscape. Poplars planted in some fields, and vines trained from one to another. From reading accounts of this husbandry, I had formed an idea that it must be singularly beautiful to see festoons of vines hanging from tree to The Pyrenees are tree; but there is nothing either pleasing or striking in it. now in front, with very high mountains to the left, with their heads in the clouds.

Pass for several miles a country much mixed with wastes; and come to a very large one, fpreading over feveral extensive hills for many miles, that presents an extraordinary spectacle to northern eyes. It is a thicket of aromatic plants, and beautiful flowering fhrubs, with but a finall mixture of plants common in England. Large fpreading myrtles three or four feet high, jeffamines, honey-fuckles, lavender, rofemary, bay, lentifcus, tamarifc, caffia, &c. &c. but all nuifances here even worfe than heath with us, for we see neither sheep nor goats. Pass Goronota, and many wastes for some miles on gentle flopes, and come again to a thick woodland enclosed country, like some parts of England. Many hedges of the yellow bloffomed prickly acacia, which answers well

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for that purpose. Reach Girona, an old town walled and fortified with some redobuts, and a fort on the hill above it; but not kept up, nor indeed would it stop an army half an hour. Here is a cathedral and a bishop, who gave us his blessing as we passed him, drawn in his coach by six mules. His revenue, is 24,000 French livres; there are curécs, who have from 1200 to 3000 livres. They tithe no live stock. They have no manusactures of any consequence, and no resource but that of agriculture; yet, what is extraordinary, Castilian and French workmen come hither for employment.—36 miles.

Snow is on the Pyrences as well as at Bagnere de Luchon.

July 21. Leave Junguerras, where the countenances and manners of the people would make one believe all the inhabitants were fungglers. Come to a most noble road, which the king of Spain is making; it begins at the pillars that mark the boundaries of the two monarchies, joining with the French road; it is admirably executed. Here take leave of Spain and re-enter France: the contrast is striking. When one crosses the sea from Dover to Calais, the preparation and circumstance of a naval passage lead the mind by some gradation to a change; but here, without going through a town, a barrier, or even wall, you enter a new world. From the natural and miferable roads of Catalonia, you tread at once on a noble caufeway, made with all the folidity and magnificence that diffinguish the highways of France. Instead of beds of torrents you have well built bridges; and from a country wild, defert, and poor, we found ourselves in the midst of cultivation and improvement. Every other circumstance spoke the same language, and told us by signs not to be mistaken, that fome great and operating cause worked an effect too clear to be misunderstood. The more one fees, the more I believe we fhall be led to think, that there is but one allpowerful cause that instigates mankind, and that is government !- Others form exceptions, and give shades of difference and distinction, but this acts with permanent and universal force. The present instance is remarkable; for Roussillon is in fact a part of Spain; the inhabitants are Spaniards in language and in customs; but they are under a French government.

Great range of the Pyrenees at a distance. Meet shepherds that speak the Catalan. The cabriolets we meet are Spanish. The farmers thresh their corn like the Spaniards. The inns and the houses are the same. Reach Perpignan; there I parted with Mons. Lazowski He returned to Bagnere de Luchon, but I had planned a tour in Langue-

doc, to fill up the time to fpare. ____15 miles.

The 22d. The Duke de la Rochefoucauld had given me a letter to Monsieur Barri de Lasseuses, major of a regiment at Perpignan, and who, he said, understood agriculture, and would be glad to converse with me on the subject. I sallied out in the morning to find him, but being Sunday, he was at his country seat at Pia, about a league from the town. I had a roassing walk thither, over a dry stony country under vines. Monsieur, Madame, and Mademoiselle de Lasseuses, received me with great politeness. I explained the motives of my coming to France, which were not to run idly through the kingdom with the common herd of travellers, but to make myself a master of their agriculture; that if I found any thing good and applicable to England, I might copy it. He commended the design greatly; said it was travelling with a truly laudable motive; but expressed much associately; faid it was travelling with a truly laudable motive; but expressed much associated in all England on such an errand. He desired I would spend the day with him. I found the vineyard the chief part of his hutbandry, but he had some arable land, managed in the singular manner of that province. He pointed

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pointed to a village which he faid was Rivefalta, which produced fome of the most famous wine in France; at dinner I found that it merited its reputation. In the evening returned to Perpignan, after a day fertile in useful information.——8 miles.

The 23d. Take the road to Narbonne. Pass Rivefalta. Under the mountain there is the largest spring I ever saw. Otters-Pool and Holywell are bubbles to it. It rises at the foot of the rock, and is able to turn immediately many mills; being at once rather a river than a spring. Pass an uninterrupted flat waste, without a single tree, house, or village for a considerable dislance: by much the ugliest country I have seen in France. Great quantities of corn every where treading out with mules as in Spain. Dine at Sejean, at the Soleil, a good new inn, where I accidentally met with the Marquis de Tressan. He told me, that I must be a singular person to travel so far with no other object than agriculture: he never knew nor heard of the like; but approved much of the

plan, and wished he could do the same.

The roads here are stupendous works. I passed a hill, cut through to ease a descent, that was all in the folid rock, and cost 90,000 livres (3,9371.) yet it extends but a few hundred yards. Three leagues and an half from Sejean to Narbonne cost 1,800,000 livres (78,750l.). These ways are superb even to a folly. Enormous sums have been fpent to level even gentle flopes. The causeways are raised and walled on each side, forming one folid mass of artificial road, carried across the vallies to the height of fix, feven, or eight feet, and never less than fifty wide. There is a bridge of a fingle arch, and a caufeway to it, truly magnificent; we have not an idea of what fuch a road is in England. The traffic of the way, however, demands no fuch exertions; one third of the breadth is beaten, one-third rough, and one-third covered with weeds. In thirty-fix miles, I have met one cabriolet, half a dozen carts, and some old women with affes. For what all this waste of treasure?—In Languedoc, it is true, these works are not done by corvées; but there is an injustice in levying the amount not far short of them. The money is raifed by tailles, and, in making the affeilment, lands held by a noble tenure are so much eased, and others by a base one so burthened, that one hundred and twenty arpents in this neighbourhood, held by the former, pay 90 livres and four hundred poffelled by a plebeian right, which ought proportionally to pay 300 livres, is, instead of that, affessed at 1400 livres. At Narbonne, the canal which joins that of Languedoc deferves attention; it is a very fine work, and will, they fay, be finished next month. -36 miles.

The 24th. Women without flockings, and many without floes; but if their feet are poorly clad, they have a fuperb confolation in walking upon magnificent caufeways: the new road is fifty feet wide, and fifty more digged away or deftroyed to make it.

The vintage itself can hardly be such a scene of activity and animation as this universal one of treading out the corn, with which all the towns and villages in Languedoc are now alive. The corn is all roughly stacked around a dry firm spot, where great numbers of mules and horses are driven on a trot round a centre, a woman holding the reins, and another, or a girl or two, with whips drive; the men supply and clear the sloor; other parties are dressing, by throwing the corn into the air for the wind to blow away the chaff. Every soul is employed, and with such an air of cheerfulness, that the people scen as well pleased with their labour, as the farmer himself with his great heaps of wheat. The scene is uncommonly animated and joyous. I stopped and alighted often to see their method; I was always very civilly treated, and my wishes for a good price for the farmer, and not too good a one for the poor, well received. This method, which entirely saves barns, depends absolutely on climate: from my leaving Bagnere de Luchon to this moment, all through Catalonia, Roussillon, and this part of Languedoc, VOL. IV.

there has been nothing like rain; but one unvarying clear bright fky and burning fun, yet not at all fuffocating, or to me even unpleasant. I asked whether they were not fometimes caught in the rain? they faid, very rarely indeed; but if rain did come, it is feldom more than a heavy shower, which a hot sun quickly succeeds and dries every thing speedily.

The canal of Languedoc is the capital feature of all this country. The mountain through which it pierces is infulated, in the midft of an extended valley, and only half a mile from the road. It is a noble and stupendous work, goes through the hill about

the breadth of three toifes, and was digged without shafts.

Leave the road, and crofting the canal, follow it to Beziers; nine fluice-gates let the water down the hill to join the river at the town.—A noble work! The port is broad enough for four large velfels to lie abreaft; the greatest of them carries from ninety to one hundred tons. Many of them were at the quay, some in motion, and every sign of an animated butiness. This is the best fight I have seen in France. Here Louis XIV. thou art truly great !- Here with a generous and benignant hand, thou dispensest eafe and wealth to thy people!—Si fic omnia, thy name would indeed have been revered! To effect this noble work, of uniting the two feas, less money was expended than to befiege Turin, or to feize Strafbourg like a robber. Such an employment of the revenues of a great kingdom is the only laudable way of a monarch's acquiring immortality; all other means make their names survive with those only of the incendiaries, robbers, and violaters of mankind. The canal passes through the river for about half a league, separated from it by walls which are covered in floods; and then turns off for Cette. Dine at Beziers. Knowing that Monf. l'Abbé Rozier, the celebrated editor of the Journal Physique, and who is now publishing a dictionary of husbandry, which in France has much reputation, lived and farmed near Beziers, I enquired at the inn the way to his house. They told me that he had left Beziers two years, but that the house was to be feen from the fireet, and accordingly they shewed it me from something of a square open on one fide to the country; adding, that it belonged now to a Monf. de Rieufe, who had purchased the cstate of the Abbé. To view the farm of a man celebrated for his writings, was an object, as it would at least enable me, in reading his book, to understand better the allusions he might make to the soil, situation, and other circumstances. I was forry to hear at the table d'hôte, much ridicule thrown on the Abbé Rozier's husbandry, that it had beaucoup de fantasie mais rien solide; in particular, they treated his paving his vineyards as a ridiculous circumstance. Such an experiment feemed remarkable, and I was glad to hear of it, that I might defire to fee these paved vineyards. The Abbe here, as a farmer, has just that character which every man will be fure to have who departs from the methods of his neighbours; for it is not in the nature of countrymen, that any body should come among them who can prefume with impunity to think for himself. I asked why he left the country? and they gave me a curious anecdote of the Bishop of Beziers cutting a road through the Abbe's farm, at the expence of the province, to lead to the house of his (the bishop's mittres), which occasioned such a quarrel, that Mons. Rozier could stay no longer in the canally. This is a pretty feature of a government: that a man is to be forced to fell asserte, and driven out of a country, because bishops make love - I suppose to their neighbours' wives, as no other love is fashionable in France. Which of my neighbours' wives will tempt the Bishop of Norwich to make a road through my farm, and drive me to fell Bradfield? I give my authority for his anecdote, the chat of a table d'hôte: it is as likely to be falfe as true; but Langue : ian bishops are certainly not English ones. Monsieur de Rieufe received me politely, and fatisfied as many of my enquiries as he could; for he ere not ne, it is ry thing

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knew little more of the Abbés helbandry than common report, and what the farm itself told him. As to paved vineyards, there was no such thing: the report must have taken rise from a vineyard of Burgundy grapes, which the Abbé planted in a new manner; he set them in a curved form, in a foss, covering them only with slints instead of earth; this succeeded well. I walked over the farm, which is beautifully situated, on the slope and top of a hill, which commands Beziers, its rich vale, its navigation, and a sine accompanyment of mountains.

Beziers has a fine promenade; and is becoming, they fay, a favourite refidence for the English, preferring the air to that of Montpellier. Take the road to Pezenas. It leads up a hill, which commands, for some time; a view of the Mediterranean. Through all this country, but particularly in the olive grounds, the cricket (cicala) makes a conflant, sharp, monotonous noise; a more odious companion on the road can hardly be imagined. Pezenas opens on a very sine country, a vale of fix or eight leagues extent all cultivated; a beautiful mixture of vines, mulberries, olives, towns, and scattered houses, with a great deal of fine lucerne; the whole bounded by gentle hills, cultivated to their tops. At supper, at the table d'hôte, we were waited on by a female without shoes or stockings, exquisitely ugly, and dissusing odours not of roses: there were, however, a croix de St. Louis, and two or three mercantile-looking people, who prated with her very familiarly: at an ordinary of farmers, at the pooreit and remotest market village in England, such an animal would not be allowed by the landlord to enter his house; or by the guests their room.——32 miles.

The 25th. The road, in croffing a valley to and from a bridge, is a magnificent walled causeway, more than a mile long, ten yards wide, and from eight to twelve seet high; with stone posts on each side at every six yards—a prodigious work. I know nothing more striking to a traveller than the roads of Languedoc: we have not in England a conception of such exertions; they are splendid and superb; and if I could free my mind of the recollection of the unjust taxation which pays them, I should travel with admiration at the magnificence displayed by the States of this province. The police of these roads is however execrable—for I scarcely meet a cart but the driver is assepting in it.

Taking the road to Montpellier, pass through a pleasing country; and by another immenfe walled caufeway, twelve yards broad and three high, leading close to the fea. To Gigean, near Frontignan and Montbafin, famous for their mufcat wines. Approach Montpellier; the environs, for near a league, are delicious, and more highly ornamented than any thing I have feen in France. Villas well built, clean, and comfortable, with every appearance of wealthy owners, are fpread thickly through the country. They are, in general, pretty fquare buildings; fome very large. Montpellier, with the air rather of a great capital than of a provincial town, covers a hill that swells proudly to the view. But on entering it, you experience a disappointment from narrow, ill-built, crooked fireets, but full of people, and apparently alive with business; yet there is no confiderable manufacture in the place; the principal are verdigreafe, filk handkerchiefs, blankets, perfumes, and liqueurs. The great object for a stranger to view is the promenade, or square, for it partakes of both, called the Perou. There is a magnificent aqueduct on three tiers of arches for supplying the city with water, from a hill at a confiderable diffance; a very noble work; a chateau d'eau receives the water in a circular bason, from which it falls into an external refervoir, to supply the city, and the jets d'eau that cool the air of a garden below, the whole in a fine square confiderably elevated above the furrounding ground, walled in with a ballustrade, and other mural decorations, and in the centre a good equestrian statue of Louis XIV. There

There is an air of real grandeur and magnificence in this useful work, that struck me more than any thing at Verfailles. The view is also singularly beautiful. To the south, the eye wanders with delight over a rich vale, spread with villas, and terminated by the sea. To the north, a series of cultivated hills. On one side, the vast range of the Pyrenees trend away till lost in remoteness. On the other, the eternal snows of the Alps pierce the clouds. The whole view one of the most superdous to be seen, when a clear sky approximates these distant objects.——32 miles.

The 26th. The fair of Beaucaire fills the whole country with bufinefs and motion; meet many carts loaded; and nine diligences going or coming. Yesterday and to-day the hottest I ever experienced; we had none like them in Spain—the slies much worse

than the heat. _____30 miles.

The 27th. The amphitheatre of Nifmes is a prodigious work, which flews how well the Romans had adapted these edifices to the abominable uses to which they were erected. The convenience of a theatre that could hold seventeen thousand speciators without confusion; the magnitude; the massive and substantial manner in which it is built without mortar, that has withstood the attacks of the weather, and the worse depredations of the barbarians in the various revolutions of sixteen centuries, all strike the attention

forcibly.

I viewed the Maison Quarré last night; again this morning, and twice more in the day; it is beyond all comparison the most light, elegant, and pleasing building I ever beheld. Without any magnitude to render it imposing; without any extraordinary magnificence to furprize, it rivets attention. There is a magic harmony in the proportions that charms the eye. One can fix on no particular part of pre-eminent beauty; it is one perfect whole of fymmetry and grace. What an infatuation in modern architects, that can overlook the chafte and elegant fimplicity of tafte, manifest in such a work, and yet rear fuch piles of laboured foppery and heaviness as are to be met with in France! The temple of Diana, as it is called, and the ancient baths, with their modern restoration, and the promenade, form part of the same scene, and are magnificent decorations of the city. I was, in relation to the baths, in ill luck, for the water was all drawn off, in order to clean them and the canals. The Roman pavements are fingularly beautiful, and in high prefervation. My quarters at Nifmes were at the Louvre, a large, commodious, and excellent inn—the house was almost as much a fair from morning to night as Beaucaire itself could be. I dined and supped at the table d'hôte; the cheapness of these tables suits my finances, and one sees something of the manners of the people; we fat down from twenty to forty at every meal, most mostley companies of French, Italians, Spaniards, and Germans, with a Greek and Armenian; and I was informed, that there is hardly a nation in Europe or Afia, that has not merchants at this great fair, chiefly for raw filk, of which many millions in value are fold in four days: all the other commodities of the world are to be found there.

One circumstance I must remark on this numerous table d'hôte, because it has struck me repeatedly, which is the taciturnity of the French. I came to the kingdom expessing to have my ears constantly satigued with the infinite volubility and spirits of the people, of which so many persons have written, sitting, I suppose, by their English sire-sides. At Montpellier, though sisteen persons and some of them ladies were present. I sound it impossible to make them break their insteable silence with more than a monosyllable, and the whole company sat more like an affembly of tongue-tied quakers, than the mixed company of a people sameus for ioquacity. Here also, at Nismes, with a different party at every meal it is the same; not a Frenchman will open his lips. To-day at dinner, hopeless of that nation, and fearing to lose the use of an organ they had so

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little inclination to employ, I fixed myfelf by a Spaniard, and having been fo lately in his country, I found him ready to converfe, and tolerably communicative; and indeed we had more converfation than thirty other perfons maintained among themfelves.

The 28th. Early in the morning to the Pont du Gard, through a plain covered with valt plantations of olives to the left, but much waste rocky land. At the first view of that celebrated aqueduct, I was rather disappointed, having expected femething of greater magnitude; but foon found the error: I was, on examining it more nearly, convinced that it possessed every quality that ought to make a strong impression. It is a supendous work; the magnitude, and the massive folidity of the architecture, which may probably endure two or three thouland years more, united with the undoubted utility of the undertaking, to give us a high idea of the spirit of exertion which executed it for the fupply of a provincial town: the furprife, however, may ceale, when we confider the nations enflaved that were the workinen .- Returning to Nilmes, meet many merchants returning from the fair; each with a child's drum tied to his cloak-bag: my own little girl was too much in my head not to love them for this mark of attention to their children; -but why a drum? Have they not had enough of the military in a kingdom, where they are excluded from all the honours, respect, and emolument, that can flow from the sword ? - I like Nismes much; and if the inhabitants be at all on a par with the appearance of their city, I should prefer it for a refidence to most, if not all the towns I have feen in France. The theatre however, is a capital point, in that Montpellier is faid to exceed it.—24 miles.

The 29th. Pass fix leagues of disagreeable country to Sauve. Vines and olives.

The chateau of Monf. Sabbatier strikes in this wild country; he has inclosed much with dry walls, planted many mulberries and olives, which are young, thriving, and well inclosed, yet the foil is to stony, that no earth is visible; some of his walls are four feet thick, and one of them twelve thick and five high, whence it feems, he thinks moving the stones a necessary improvement, which I much question. He has built three or four new farm houses; I suppose he resides on this estate for improving I hope he does not ferve; that no moon-shine pursuit may divert him from a conduct honourable to himfelf, and beneficial to his country.-Leaving Sauve, I was much struck with a large tract of land, feemingly nothing but huge rocks; yet most of it inclosed and planted with the most industrious attention. Every man has an olive, a mulberry, an almond, or a peach-tree, and vines feattered among them; fo that the whole ground is covered with the oddeft mixture of these plants and bulging rocks, that can be conceived. The inhabitants of this village deferve encouragement for their indultry; and if I were a French minister, they should have it. They would foon turn all the deferts around them into gardens. Such a knot of active hufhandmen, who turn their rocks into feenes of fertility, because I suppose their own, would do the fame by the waltes, if animated by the fame omnipotent principle. Dine at St. Hyppolite, with eight protestant merchants returning home to Rouverge, from the fair of Beaucaire; as we parted at the fame time, we travelled together; and from their convertation, I learned fome circumflances of which I wanted to be informed; they told me also, that mulberries extend beyond Vigan, but then, and especially about Milhaud, almonds take their place, and are in very great quantities.

My Rouverge friends prefled me to pass with them to Milhaud and Rodez, affuring me, that the cheapness of their province was so great, that it would tempt me to live some time amongst them. That I might have a house at Milhaud, of sour tolerable rooms on a sloor surnished, for twelve louis a-year; and live in the utmost plenty

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with all my family, if I would bring them over, for a hundred louis a-year: that there were many families of nobleffe, who fubfifted on fifty, and even on twenty-five a-year. Such anecdotes of cheapness are only curious when confidered in a political light, as contributing on one hand to the welfare of individuals; and on the other, as contributing to the prosperity, wealth, and power of the kingdom; if I should meet with many such instances, and also with others directly contrary, it will be necessary to con-

fider them more at large. -- 30 miles.

The 30th. Going out of Gange, I was furprifed to find by far the greatest exertion in irrigation which I had yet feen in France; and then pu's by fome fleep mountains, highly cultivated in terraces. Much watering at St. Laurence. The feenery very interesting to a farmer. From Gauge, to the mountain of rough ground which I croffed, the ride has been the most interesting which I have taken in France; the efforts of industry the most vigorous; the animation the most lively. An activity has been here, that has fwept away all difficulties before it, and has cloathed the very rocks with verdure. It would be a difgrace to common fenfe to ask the cause: the enjoyment of property mult have done it. Give a man the fecure possession of a bleak rock, and he will turn it into a garden; give him a nine year's leafe of a garden, and he will convert it into a defert. To Montadier over a rough mountain covered with box and lavender; it is a beggarly village, with an auberge that made me almost shrink. Some cut-throat figures were eating black bread, whose vifages had so much of the gallies that I thought I heard their chains rattle. I looked at their legs, and could not but imagine they had no bufiness to be free. There is a species of countenance so horribly bad, that it is impossible to be millaken in one's reading. I was quite alone, and absolutely without arms. Till this moment, I had not dreamt of carrying piftols: I should now have been better fatisfied, if I had had them. The matter of the auberge, who feemed first cousin to his guells, procured for me some wretched bread with difficulty, but it was not black.— No meat, no eggs, no legumes, and execrable wine: no corn for my mule; no hay; no straw; no grafs: the loaf fortunately was large; I took a picce, and sliced the relt for my four feoted Spanish friend, who ate it thankfully, but the aubergiste growled.—Defeend by a winding and excellent road to Maudieres, where a vaft arch is thrown across the torrent. Pass St. Maurice, and cross a ruined forest amongst fragments of trees. Defeend three hours, by a most noble road hewn out of the mountain fide to Lodeve, a dirty, ugly, ill built town, with crooked close streets, but populous, and very industrious.—Here I drank excellent light and pleasing white wine, at 5s. a bot-—36 miles.

The 3 cft. Cross a mountain by a miserable road, and reach Beg de Rieux, which shares with Carcassone, the fabric of Londrins, for the Levant trade.—Cross much waste to Beziers.—I met to-day with an inflance of ignorance in a well dressed French merchant, that surprized me. He had plagued me with abundance of stressome foolish questions, and then asked for the third or fourth time what country I was of. I told him I was a Chinese. How far off is that country?—I replied, two hundred leagues. D.ux cents lieux! Diable! ergs un grand chenin! The other day a Frenchman asked me, after telling him I was an Englishman, if we had trees in England?—I replied, that we had a few. Had we any rivers?—Oh, none at all. Alt ma foi erg bientrisse! This incredible ignorance, when compared with the knowledge so universally disseminated in England, is to be attributed, like every thing else, to government.—40

miles.

August 1. Leave Beziers, in order to go to Capestan by the pierced mountain. Cross the canal of Lauguedoc several times; and over many wastes to Pleraville.

The

The Pyrences new full to the left, and their roots but a few leagues off. At Carcaffonne they carried me to a fountain of muddy water, and to a gate of the barracks; but I was better pleafed to fee feveral large good houses of manufacturers, that shew wealth.——40 miles.

The 2d. Pass a confiderable convent, with a long line of front, and rise to Fanjour.

The 3d. At Mirepoix they are building a most magnificent bridge of feven flat arches, each of fixty four feet fpan, which will coft 1,800,000 livres, (78,750l.); it has been twelve years erecting, and will be finished in two more. The weather for feveral days has been as fine as poslible, but very hot; to-day the heat was so disagrecable, that I refled from twelve to three at Mirepoix; and found it fo burning, that it was an effort to go half a quarter of a mile to view the bridge. The myriads of flies were ready to devour me, and I could hardly support any light in the room. Riding fatigued me, and I enquired for a carriage of fome fort to carry me, while thefe great heats flould continue; I had done the fame at Carcaffone; but nothing like a cabriolet of any fort was to be had. When it is recollected that that place is one of the most confiderable manufacturing towns in France, containing fifteen thousand people, and that Mirepoix is far from being a mean place, and yet not a voiture of any kind to be had, how will an Englishman blefs himself for the universal conveniences that are spread through his own country, in which I believe there is not a town of fifteen hundred people in the kingdom where post chaises and able horses are not to be had at a moment's warning! What a contrast! This confirms the fact deducible from the little traffic on the roads even around Paris itself. Circulation is stagnant in France.-The heat was fo great that I left Mirepoix disordered with it: this was by far the hottell day that I over felt. The hemisphere seemed almost in a slame with burning rays that rendered it impossible to turn one's eyes within many degrees of the radiant orb that now blazed in the heavens .- Crofs another fine new bridge of three arches; and come to a woodland, the first I had seen for a great distance. Many vines about Pamiers, which is fituated in a beautiful vale, upon a fine river. The place itself is ugly, flinking, and ill built; with an inn! Adieu, Monf. Gascit; if fate fend me to such another house as thine be it an expiation for my fins! _____28 miles.

The 4th. Upon leaving Amons, there is the extraordinary spectacle of a river issuing out of a cavern in a mountain of rock; on crossing the hill you see where it caters by another cavern .-- It pierces the mountain. Most countries, however, have inflances of rivers passing under ground. At St. Gerond's 10 to the Croix Blanche, the most execrable receptacle of filth, vermin, impudence, and imposition that ever exercifed the patience, or wounded the feelings of a traveller. A withered hag, the damon of beaftliness, prefides there. I laid, not refled, in a chamber over a flable, whose effluvice through the broken floor were the least offenfive of the persumes afforded by this hideous place.-It could give me nothing but two flale eggs, for which I paid, exclusive of all other charges, zos. Spain brought nothing to my eyes that equalled this fink, from which an English hog would turn with digust. But the inns all the way from Nifmes are wretched, except at Lodeve, Gange, Cavcaffenne, and Mirepoix. St. Gerond's must have, from its appearance, four or five thousand people. Pamiers near twice that number. What can be the circulating connection between fuelt maffes of people and other towns and countries, that can be held tegether and supported by fuch ims? There have been writers who look upon such observations as arising merely from the petulance of travellers, but it shews their extreme ig-

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norance. Such circumstances are political data. We cannot demand all the books of France to be opened in order to explain the amount of circulation in that kingdom; a politician must therefore collect it from such circumstances as he can afcertain; and among thefe, traffic on the great roads, and the convenience of the houses prepared for the reception of travellers, tell us both the number and the condition of those travellers: by which term I chiefly allude to the natives, who move on bufmels or pleasure from place to place; for if they be not confiderable enough to cause good inns, those who come from a diffance will not, which is evident from the bad accommodations even in the high road from Calais to Rome. On the contrary, go in England to towns that contain fifteen hundred, two thousand, or three thousand people, in fituations abfolutely cut off from all dependence, or almost the expectation of what are properly called travellers, yet you will meet with neat inns, well dreffed and clean people keeping them, good furniture, and a refreshing civility; your fenses may not be gratified, but they will not be offended; and if you demand a pair of horfes. the cost of which is not less than 801, in spite of a heavy tax, it will be ready to carry you whither you pleafe. Are no political conclusions to be drawn from this amazing contrast? It proves that such a population in England have connections with other places to the amount of supporting such houses. The friendly clubs of the inhabitants, the vifits of friends and relations, the parties of pleafure, the refort of farmers, the intercourse with the capital and with other towns, form the support of good inns; and n a country where they are not to be found, it is a proof that there is not the fame quantity of motion; or that it moves by means of lefs wealth, lefs confumption, and less enjoyment. In this journey through Languedoc, I have passed an incredible number of tplendid bridges, and many fuperh caufeways. But this only proves the abfurdity and oppression of government. Bridges that cost 70 or 80,000s, and immense caufeways to connect towns, that have no better inns than fuch as I have deferibed, appear to be grofs abfurdities. They cannot be made for the mere use of the inhabitants, because one-fourth of the expense would answer the purpose of real utility. They are therefore objects of public magnificence, and confequently for the eye of travellers. But what traveller, with his perfon furrounded by the beggarly filth of an inn, and with all his fenses offended, will not condemn such inconsistencies, and will not wish for more comfort and less appearance of sptendour?——30 miles.

The 5th. To St. Martory is an almost uninterrupted range of well inclosed and well cultivated country. - For an hundred miles path, the women generally without floes, even in the towns; and in the country many men also. - The heat yesterday and to day as intenfe as it was before: there is no bearing any light in the rooms; all must be shut close, or none are tolerably cool: in going out of a light room into a dark one, though both to the north, there is a very fentible coolness; and out of a dark one into a roofed balcony, is like going into an oven. I have been advited every day not to flir till four o'clock. From ten in the morning till five in the afternoon, the heat makes all exercise most uncomfortable; and the slies are a cur'e of Egypt. Give me the cold and fogs of England, rather than fuch a heat, should it be latting. The natives, however, affert, that this intenfity has now continued as long as it commonly does, namely, four or five days; and that the greatest part even of the hottest months is much cooler than the weather is at prefent. - In two hundred and fifty miles githant, I have met on the road two cabriolets only, and three mifera le things like old Englith one horse chaises; not one gentleman; though many merchants as they call themfelves, each with two or three cloak-bags behind him: a fearcity of travellers that is amazing.---23 miles.

The 6th. To Bagnere de Luchon, rejoining my friends, and not displeased to have

a little rest in the cool mountains, after so burning a ride. ____28 mlles.

The 10th. Finding our party not yet ready to fet out on their return to Paris, I determined to make use of the time there was yet to spare, ten or eleven days, in a tour to Bagnere de Bigorre, to Bayonne, and to meet them on the way to Bourdeaux, at Auch. This being settled, I mounted my English mare, and took my last leave of Luchon.—28 miles.

The 11. Pass a convent of Bernardine monks, who have a revenue of 20,000 livres. It is fituated in a vale, watered by a charming chrystal stream, and some hills, covered with oak, shelter it behind.—Arrive at Bagnere, which contains little worthy of notice, but it is much frequented by company on account of its waters. To the valley of Campan, of which I had heard great things, and which yet much surpassed my expectation. It is quite different from all the other vales I have feen in the Pyrenees or in Catalonia. The features and the arrangement novel. In general the richly cultivated flopes of those mountains are thickly enclosed; this, on the contrary, is open. The vale itself is a flat range of cultivation and watered meadow, foread thickly with villages and fcattered houses. The eastern boundary is a rough, steep, and rocky mountain, and affords pasturage to goats and sheep; a contrast to the western, which forms the fingular feature of the scene. It is one noble sheet of corn and grass unenclosed, and intersected only by lines that mark the division of properties, or the channels that conduct water from the higher regions for irrigating the lower ones; the whole is one matchless slope of the richest and most luxuriant vegetation. Here and there are scattered some small masses of wood, which chance has grouped with wonderful happiness for giving variety to the scene. The season of the year, by mixing the rich yellow of ripe corn with the green of the watered meadows, added greatly to the colouring of the landscape, which is upon the whole the most exquisite for form and colour that my eye has ever been regaled with. - Take the road to Lourde, where is a castle on a rock, garrisoned for the mere purpose of keeping state prisoners, sent hither by lettres de cachet. Seven or eight are known to be here at present; thirty have been here at a time; and many for life—torn by the relentless hand of jealous tyranny from the bosom of domestic comfort; from wives, children, friends, and hurried for crimes unknown to themselves-more probably for virtues-to languish in this detested abode of misery—and die of despair. Oh, liberty! liberty!—and yet this is the mildest government of any considerable country in Europe, our own excepted. dispensations of Providence seem to have permitted the human race to exist only as the prey of tyrants, as it has made pigeons for the prey of hawks. _____35 miles.

The 12th. Pau is a confiderable town, that has a parliament and a linen manufacture; but it is more famous for being the birth-place of Henry IV. I viewed the castle, and was shewn, as all travellers are, the room in which that amiable prince was born, and the cradle, the shell of a tortoise, in which he was nursed. What an essential on posterity have great and distinguished talents! This is a considerable town, but I question whether any thing would ever carry a stranger to it but its possessing the cra-

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Take the road to Moneng, and come presently to a scene which was so new to me in France, that I could hardly believe my own eyes. A succession of many well-built, tight, and comfortable farming cottages, built of stone, and covered with tiles; each having its little garden, enclosed by clipt thorn edges, with plenty of peach and other fruit-trees, some sine oaks scattered in the hedges, and young trees nursed up with so much care, that nothing but the softering attention of the owner could effect any thing VOL. IV.

like it. To every house belongs a farm, perfectly well enclosed, with grafs borders mown and neatly kept around the corn fields, with gates to pass from one enclosure to another. The men are all dressed with red caps, like the Highlanders of Scotland. There are some parts of England (where small yeomen still remain) that resemble this country of Bearne; but we have very little that is equal to what I have seen in this ride of twelve miles from Pau to Moneng. It is all in the hands of little proprietors, without the farms being so small as to occasion a vicious and misterable population. An air of neatness, warmth, and comfort breathes over the whole. It is visible in their new-built houses and stables; in their little gardens; in their hedges; in the courts before their doors; even in the coops for their poultry, and the slies for their hogs. A peasant does not think of rendering his pig comfortable, if his own happiness hang by the thread of a nine years lease. We are now in Bearne, within a few miles of the cradle of Henry IV. Do they inherit these blessings from that good prince? The benignant genius of that good monarch seems to reign still over the country; each peasant has the sowl in the pot.——34 miles.

The 12th. The agreeable scene of yesterday continues; many small properties, and every appearance of rural happiness. Navareen is a small walled and fortisted town, consisting of three principal streets, which cross at right angles, with a small square. From the ramparts there is the view of a sine country. The linen sabric spreads through it. To St. Palais the country is mostly inclosed, and much of it with thorn hedges, ad-

mirably trained, and kept neatly clipped.——25 miles.

The 14th. Left St. Palais, and took a guide to conduct me four leagues to Anfpan. Fair day, and the place crowded with farmers; I saw the soup prepared for what we should call the farmer's ordinary. There was a mountain of sliced bread, the colour of which was not inviting; ample provision of cabbage, grease, and water, and about as much meat for some scores of people, as half a dozen English farmers would have

eaten, and grumbled at their host for short commons. --- 26 miles.

The 15th. Bayonne is by much the prettieft town I have feen in France; the houses are not only well built of flone, but the streets are wide, and there are many openings which, though not regular fquares, have a good effect. The river is broad, and many of the houses being fronted to it, the view of them from the bridge is fine. The promenade is charming; it has many rows of trees, whose heads join and form a shade delicious in this hot climate. In the evening, it was thronged with well dreffed people of both fexes; and the women, through all the country, are the handfomelt I have feen in France. In coming hither from Pau, I faw what is very rare in that kingdom, clean and pretty country girls; in most of the provinces, hard labour destroys both person and complexion. The bloom of health on the cheeks of a well dressed country girl is not the worst feature in any landscape. I hired a chaloup for viewing the embarkment at the mouth of the river. By the water fpreading itself too much, the harbour was injured; and government to contract it, has built a wall on the north bank a mile long, and another on the fouth shore of half in length. It is from ten to twenty feet wide, and about twelve high, from the top of the bate of rough stone, which extends twelve or fifteen feet more. Towards the mouth of the harbour, it is twenty feet wide, and the stones on both sides crampt together with irons. They are now driving piles of pine fixteen feet deep, for the foundation. It is on the whole, a work of great expence, magnificence, and utility.

The 16th. To Dax is not the best way to Auch, but I had a mind to see the samous waste called Les Landes de Bourdeaux, of which I had long heard and read so much. I was informed, that by this route, I should pass through more than twelve leagues of

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he famous fo much. leagues of them. them. They reach almost to the gates of Bayonne; but broken by cultivated spots for a league or two. These landes are fandy tracts covered with pine trees, cut regularly for resin. Historians report, that when the Moors were expelled from Spain, they applied to the court of France for leave to settle on and cultivate these landes; and that the court was much condemned for resusing them. It seems to have been taken for granted, that they could not be peopled with French; and therefore ought rather to be given to Moors, than to be lest waste.—At Dax, there is a remarkably hot spring in the middle of the town. It is a very sine one, bubbling powerfully out of the ground in a large bason, walled in; it is boiling hot; it tastes like common water, and I was told that it was not impregnated with any mineral. The only use to which it is applied is for washing linen. It is at all seasons of the same heat, and in the same quantity.——27 miles.

The 17th. Pass a district of sand as white as snow, and so loose as to blow; yet it has oaks two feet in diameter, by reason of a bottom of white adhesive earth like marl. Pass three rivers, the waters of which might be applied in irrigation, yet no use made of them. The Duke de Bouillon has vast possessions in these lands. A Grand Seigneur will at any time, and in any country, explain the reason of improveable land being left

The 18th. As dearness is, in my opinion, the general feature of all money exchanges in France, it is but candid to note inflances to the contrary. At Airé, they gave me, at the Croix d'Or, foup, cels, sweet-bread, and green peas, a pigeon, a chicken, and veal cutlets, with a desert of biscuits, peaches, nectarines, plums, and a glass of liqueur, with a bottle of good wine, all for 4% (20d.) oats for my mare 20% and hay 10%. At the same price at St. Severe, I had a supper last night not inferior to it. Every thing at Airé seemed good and clean; and what is very uncommon, I had a parlour to eat my dinner in, and was attended by a neat well dressed girl. The last two hours to Airé it rained so violently, that my filk surtout was an insufficient defence; and the old landlady was in no haste to give me fire enough to be dried.

The 19th. Pass Beek, which seems a flourishing little place, if we may judge by the building of new houses. The Clef d'Or is a large, new, and good inn.

In the two hundred and feventy miles from Bagnere de Luchon to Auch, a general observation I may make is, that the whole, with very few exceptions, is inclosed; and that the sarm-houses are every where scattered, instead of being, as in many parts of France, collected in towns. I have seen scarcely any gentlemen's country-seats that seem at all modern; and in general, they are thin to a surprising degree. I have not met with one country equipage, nor any thing like a gentleman riding to see a neighbour. Scarcely a gentleman at all. At Auch, met by appointment my friends, on their return to Paris. The town is almost without manufactures or commerce, and is supported chiestly by the rents of the country. But they have many of the noblesse in the province, too poor to live here; some indeed so poor that they plough their own fields; and these may possibly be much more estimable members of society than the fools and knaves who laugh at them.—31 miles.

The 20th. Pass Fleuran, which contains many good houses, and go through a populous country to Leitour, a bishoprick, the diocesan of which we left at Bagnere de Luchon. The situation is beautiful on the point of a ridge of hills.——20 miles.

The 22d. By Leyrac, through a fine country, to the Garonne, which we cross by a ferry. This river is here a quarter of a mile broad, with every appearance of com-

merce. A large barge passed loaded with cages of poultry; of such consequence throughout the extent of this navigation is the consumption of the great city of Bourdeaux! The rich vale continues to Agen, and is very highly cultivated; but has not the beauty of the environs of Leitour. If new buildings be a criterion of the flourishing state of a place, Agen prospers. The bishop has raised a magnificent palace, the centre of which is in a good taste; but the junction with the wings not equally happy.——

23 miles.

The 23d. Pass a rich and highly cultivated vale to Aguillon; much hemp, and every woman in the country employed on it. Many neat well-built farm-houses on finall properties, and all the country very populous. View the chateau of the Duc d'Aguillon, which, being in the town, is badly fituated, according to all rural ideas; but a town is ever an accompaniment of a chateau in France, as it was formerly in most parts of Europe; it feems to have refulted from a feudal arrangement, that the Grand Seigneur might keep his flaves the nearer to his call, as a man builds his stables near his house. This edifice is a considerable one, built by the present duke; begun about twenty years ago, when he was exiled here during eight years. And, thanks to that banishment, the building went on nobly; the body of the house done, and the detached wings almost finished. But as soon as the sentence was reversed, the duke went to Paris, and has not been here fince, confequently all now stands still. It is thus that banishment alone will force the French nobility to execute what the English do for plea-fure—reside upon and adorn their estates. There is one magnificent circumstance, namely, an elegant and spacious theatre; it fills one of the wings. The orchestra is for twenty four muficians, the number kept, fed, and paid, by the duke when here. This elegant and agreeable luxury, which falls within the compass of a very large fortune, is known in every country in Europe except England; the possessor of great estates here preferring horses and dogs very much before any entertainment a theatre can yield. To Tonnance.——25 miles.

The 24th. Many new and good country feats of gentlemen, well built, and fet off with gardens, plantations, &c. These are the effects of the wealth of Bourdeaux. These people, like other Frenchmen, eat little meat; in the town of Leyrac, five oxen only are killed in a year; whereas an English town, with the same population, would consume two or three oxen a week. A noble view towards Bourdeaux for many leagues, the river appearing in four or five places. Reach Langon, and drink of its

excellent white wine. ____ 32 miles.

The 25th. Pass through Barsac, famous also for its wines. They are now ploughing with oxen between the rows of the vines, the operation which gave Tull the idea of horse-hoeing corn. Great population, and country seats all the way. At Castres the country changes to an uninteresting flat. Arrive at Bourdeaux, through a conti-

nued village.——30 miles.

The 26. Much as I had read and heard of the commerce, wealth, and magnificence of this city, they greatly surpassed my expectations. Paris did not answer at all, for it is not to be compared to London; but we must not name Liverpool in competition with Bourdeaux. The grand feature here, of which I had heard most, answers the least; I mean the quay, which is respectable only for length, and its quantity of business, neither of which, to the eye of a stranger, is of much consequence, if devoid of beauty. The row of houses is regular, but without either magnificence or beauty. It is a dirty, sloping, muddy shore; parts without pavement, incumbered with filth and stones; barges lie here for loading and unloading the ships, which cannot approach to what should be a quay. Here is all the dirt and disagreeable circumstances of trade,

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without the order, arrangement, and magnificence of a quay. Barcelona is unique in this respect. When I presumed to find fault with the buildings the river, it must not be supposed that I include the whole; the crescent which is in . fame line is better. The place royale, with the statue of Louis XV. in the middle, is a fine opening, and the buildings which form it regular and handsome. But the quarter of the chapeau rouge is truly magnificent, confifting of noble houses, built, like the rest of the city, of white hewn stone. It joins the chateau trompette, which occupies near half a mile of the shore. This fort is bought of the king, by a company of speculators, who are now pulling it down with an intention of building a fine fquare and many new ftreets, to the amount of 1800 houses. I have seen a design of the square and the streets, and it would, if executed, be one of the most splendid additions to a city that is to be seen in Europe. This great work stands still at present through a fear of resumptions. The theatre, built about ten or twelve years ago, is by far the most magnificent in France. I have feen nothing that approaches it. The building is infulated, and fills up a space of three hundred and fix feet by one hundred and fixty-five, one end being the principal front, containing a portico the whole length of it, of twelve very large Corinthian columns. The entrance from this portico is by a noble vestibule, which leads not only to the different parts of the theatre, but also to an elegant oval concert-room, and faloons for walking and refreshments. The theatre itself is of a valt fize; in shape the fegment of an oval. The establishment of actors, actresses, singers, dancers, orchestra, &c. speaks the wealth and luxury of the place. I have been assured, that from thirty to fifty louis a night have been paid to a favourite actress from Paris. Larrive, the first tragic actor of that capital, is now here, at 500 livres (21l. 12s. 6d.) a night, with two benefits. Dauberval, the dancer, and his wife (the Mademoifelle Theodore of London) are retained as principal ballet-master and first female dancer, at a falary of 28,000 livres (1225l.). Pieces are performed every night, Sundays not excepted, as every where in France. The mode of living that takes place here among merchants is highly luxurious. Their houses and establishments are on expensive fcales. Great entertainments, and many ferved on plate: high play is a much worfe thing; -and the fcandalous chronicle fpeaks of merchants keeping the dancing and finging girls of the theatre at falaries which ought to import no good to their credit. This theatre, which does so much honour to the pleasures of Bourdeaux, was raised at the expence of the town, and cost 270,000l. The new tide corn mill, erected by a company, is very well worth viewing. A large canal is digged and formed in masonry of hewn stone, the walls four feet thick, leading under the building for the tide coming in, to turn the water wheels. It is then conducted in other equally well formed canals to a refervoir; and when the tide returns it gives motion to the wheels again. Three of these canals pass under the building for containing twenty-four pairs of stones. Every part of the work is on a fcale of folidity and duration, admirably executed. The estimate of the expense is 8,000,000 livres (350,000l.); but I know not how to credit fuch a fum. How far the erection of steam engines to do the same business would have been found a cheaper method, I shall not enquire; but I should apprehend that the common water-mills on the Garonne, which flart without fuch enormous expences for their power, must in the common course of events ruin this company. The new houses that are building in all quarters of the town, mark, too clearly to be mifunderstood, the prosperity of the place. The skirts are every where composed of new streets; with still newer ones marked out, and partly built. These houses are in general finall, or on a middling feale, for inferior tradefinen. They are all of white stone, and add, as they are finished, much to the beauty of the city. I enquired into

the date of these new streets, and sound that four or sive years were in general the period: that is to say, since the peace; and from the colour of the stone of those streets next in age, it is plain that the spirit of building was at a stop during the war. Since the peace they have gone on with great activity. What a satire on the government of the two kingdoms, to permit in one the prejudices of manufacturers and merchants, and in the other the insidious policy of an ambitious court, to hurry the two nations into wars that check beneficial works, and spread ruin where private exertion was busied in deeds of prosperity! The rent of houles and lodgings riles every day; they complain that the expences of living have increased in ten years sull thirty per cent. There can hardly be a clearer proof of an advance in prosperity.

The commercial treaty with England being a fubject too interesting not to demand attention, we made the necessary enquiries. Here it is considered as a wife measure, that

tends equally to the benefit of both countries.

We went twice to fee Larrive perform his two capital parts of the Black Prince in Monf. du Belloy's Piere le Cruel, and Philoctete, which gave me a very high idea of the French Theatre. The inns at this city are excellent; the hotel d'Angleterre and the Prince of Asturias; at the latter we found every accommodation to be wished, but with an inconfistence that cannot be too much condemned: we had very elegant apartments, and were served on plate, yet the necessary-house the same temple of abomination that is to be met in a dirty village.

The 28th. Leave Bourdeaux; cross the river by a ferry, which employs twenty-nine men and fifteen boats, and lets at 18,000 livres (7871.) a year. The view of the Garonne is very fine, appearing twice as broad as the Thames at London; and the number of large ships lying in it, makes it, I suppose, the richest water view that France has to boast. Hence to the Dordonne, a noble river, though much inferior to the Garonne; the ferry

lets at 6000 livres. Reach Cavignac. 20 miles.

The 29th. To Barbefieux, fituated in a beautiful country, finely diversified and wooded; the marquifate, of which, with the chateau, belongs to the Duke ce la Rochefoucald, whom we met here; he inherits this estate from the famous Louvois, the minister of Louis XIV. In these thirty-seven miles of country, lying between the great rivers Garonne, Dordonne, and Charente, and confequently in one of the best parts of France for markets, the quantity of waste land is surprising; it is indeed the predominant feature. Much of these wastes belonged to the Prince de Soubise, who would not fell any part of them. Thus it is whenever you flumble on a Grand Scigneur, even one who was worth millions, you are fure to find his property a defert. The Duke of Bouillon's and this Prince's are two of the greatest properties in France; and all the figns I have yet feen of their greatness, are wastes, landes, deferts, fern, ling-Go to their refidence, wherever it may be, and you would probably find them in the midft of a forest, very well peopled with deer, wild boars, and wolves. Oh! if I were the legislator of France for a day, I would make fuch great lords skip *! We supped with the Duke de la Rochefoucauld; the provincial affembly of Saintonge is foon to meet, and this nobleman, being the prefident, is waiting for their affembling.

The 30th. Through a chalk country, well wooded, though without inclosures, to Angouleme; the approach to that town is fine; the country around being beautiful with the fine river Charente, here navigable, flowing through it.—25 miles.

The 31st. Quitting Angouleme, pass through a country almost covered with vines, and across a noble wood belonging to the Duchess d'Anville, mother of the Duke de la

[•] I can affure the reader that these sentiments were those of the moment; the events that have taken place almost induced me to strike many such passages out, but it is fairer to all parties to leave them.

Rochesoucauld.

Rochefoucauld, to Verteul, a chateau of the fame lady, built in 1459, where we found every thing that travellers could wish in a hospitable mansion. The Emperor Charles V. was entertained here by Anne de Polignac, widow of Francis II. Count de la Rochefoucauld, and that Prince, faid aloud "n'avoir jamais été en maison qui sentit mieux sa grande vertu bonnetete & seigneurie que cella la."-It is excellently kept ; in thorough repair, fully furnished, and all in order, which merits praise, considering that the family rarely are here for more than a few days in a year, having many other and more confiderable feats in different parts of the kingdom. If this just attention to the interests of posterity were more general, we should not see the inelancholy spectacle of ruined chateaus in fo many parts of France. In the gallery is a range of portraits from the tenth century; by one of which it appears, that this effate came by a Mademoifelle la Rochefoucauld, in 1470. The park, woods, and river Charente here are fine: the last abounds greatly in carp, tench, and perch. It is at any time eafy to get from fifty to one hundred brace of fifth that weigh from three to ten pound each: we had a brace of carp for supper, the sweetest without exception, I ever tasted. If I pitched my tent in France, I should choose it to be by a river that gave such fish. Nothing provokes one so much in a country refidence as a lake, a river, or the fea within view of the windows, and a dinner every day without fifth, which is fo common in England. _____27 miles.

September of. Pais Caudec, Ruffec, Maifons-Blanches, and Chaunay. At the first of these places, view a very fine flour mill built by the late Count de Broglio, brother of the Marcchal de Broglio, one of the ablest and most active officers in the French service. In his private capacity, his undertakings were of a national kind; this mill, an iron forge, and the project of a navigation, proved that he had a disposition for every exertion that could, according to the prevalent ideas of the times, benefit his country; that is to say, in every way except the one in which it would have been effective—practical agriculture. This day's journey has been, with some exceptions, through a poor,

dull, and difagreeable country. ____35 miles.

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The 3d. A white chalky country to Chateaurault, open, and thinly peopled, though not without country-feats. That town has fome animation, by reafon of its navigable river, which falls into the Loire. There is a confiderable cutlery manufacture: we were no fooner arrived, than our apartment was full of the wives and daughters of manufacturers, each with her box of knives, fcissers, toys, &c and with so much civil so-licitude to have something bought, that had we wanted nothing it would have been impossible to let so much urgency prove vain. It is remarkable, as the fabrics made here are cheap, that there is scarcely any division of labour in this manufacture; it is in the hands of distinct and unconnected workmen, who go through every branch on their own account, and without assistance, except from their families.——25 miles.

The 4th. Pass a better country, with many chateaus, to Les Ormes, where we stopt to see the seat built by the late Count de Voyer d'Argenson. This chateau is a large handsome edifice of stone, with two very considerable wings for offices and strangers' apartments: the entrance is into a neat vestibule, at the end of which is the faloon, a

circular marble room, extremely elegant and well furnished: in the drawing room are paintings of the four French victories of the war of 1744: in every apartment there is a strong disposition to English furniture and modes. This pleasing residence belongs at present to the Count d'Argenson. The late Count who built it formed with the present Duke of Graston, in England, the scheme of a very agreeable party. The Duke was to go over with his horses and pack of fox hounds, and live here for some months, with a number of friends. It originated in the proposal to hunt French wolves with English fox-dogs. Nothing could be better planned than the scheme, for I es Ormes is large enough to have contained a numerous party; but the Count's death destroyed the plan. This is a sort of intercourse between the nobility of two kingdoms, which I am surprised does not take place sometimes; it would vary the common scenes of life very agreeably, and be productive of some of the advantages of travelling in the most eligible way.—23 miles.

The 5th. Through a dead flat and unpleasant country, but on the finest road I have seen in France—nor does it seem possible that any should be siner; not arising from great exertions, as in Languedoc, but from being laid flat with admirable materials. Chateaus are scattered every where in this part of Touraine; but farm houses and cottages thin, till you come in sight of the Loire, the banks of which seem one continued village. The vale through which that river flows, may be three miles over; a dead level of burnt rus-

fet meadow.

The entrance of Tours is truly magnificent, by a new street of large houses, built of hewn white stone, with regular fronts. This fine street, which is wide, and with foot pavements on each fide, is cut in a strait line through the whole city to the new bridge, of fifteen flat arches, each of feventy-five feet span. It is altogether a noble exertion for the decoration of a provincial town. Some houses remain yet to be built, the fronts of which are done; some reverend fathers are fatisfied with their old habitations, and do not choose the expense of filling up the elegant defign of the Tours projectors; they ought, however, to be unroofted if they will not comply, for fronts without houses behind them have a ridiculous appearance. From the tower of the cathedral there is an extensive view of the adjacent country; but the Loire, for so considerable a river, and for being boafted as the most beautiful in Europe, exhibits such a breadth of shoals and fands as to be almost subversive of beauty. In the chapel of the old palace of Louis XI. Les Plessis les Tours, are three pictures which deserve the traveller's notice; a holy family, St. Catharine, and the daughter of Herod; they feem to be of the best age of Italian art. There is a very fine promenade here; long and admirably shaded by four rows of noble and lofty elms, which for shelter against a burning fun can have no superior; parallel with it is another on the rampart of the old walls, which looks down on the adjacent gardens; but these walks, of which the inhabitants have long boasted, are at prefent objects of melancholy; the corporation has offered the trees to fale, and I was affured they would be cut down the enfuing winter. - One would not wonder at an English corporation facrificing the ladies' walk for plenty of turtle, venifon, and madeira; but that a French one should have so little gallantry, is inexcusable.

The 9th. The Count de la Rochefoucauld having a feverish complaint when he arrived here, which prevented our proceeding on the journey, it became the second day a confirmed sever; the best physician of the place was called in, whose conduct I liked much, for he had recourse to very little physick, but much attention to keep his apartment cool and airy; and seemed to have great considence in leaving nature to throw off the malady that oppressed her. Who is it that says there is a great difference between a good physician and a bad one; yet very little between a good one and none at all?

Among

Among other excursions, I took a ride on the banks of the Loire towards Saumur, and found the country the same as near Tours; but the chateaus not so numerous or good. Where the chalk hills advance perpendicularly towards the river, they present a most singular spectacle of uncommon habitations; for a great number of houses are cut out of the white rock, fronted with masonry, and holes cut above for chimnies, so that you sometimes know not where the house is from which you see the sinoke issuing. These cavern-houses are in some places in tiers one above another. Some with little scraps of gardens have a pretty effect. In general, the proprietors occupy them; but many are let at 10, 12, and 15 livres a year. The people I talked with secuncial well satisfied with their habitations, as good and comfortable: a proof of the dryness of the climate. In England the rheumatism would be the chief inhabitant. Walked to the Benedictine convent of Marmoutier, of which the Cardinal de Rohan,

at prefent here, is abbot.

The 10th. Nature, or the Tours doctor, having recovered the Count, we fet forward on our journey. The road to Chanteloup is made on an embankment, that fecures a large level tract from floods. The country more uninteresting than I could have thought it possible in the vicinity of a great river .- View Chanteloup, the magficent feat of the late Duke de Choifeul. It is fituated on a rifing ground, at some diffance from the Loire, which in winter, or after great floods, is a fine object, but at present is scarcely seen. The ground-sloor in front confists of seven rooms: the diving-room of about thirty by twenty, and the drawing-room thirty by thirty-three; the library is feventy-two by twenty, fitted up by the prefent possessor, the Duke de Penthievre, with very beautiful tapeltry from the Gobelius .- In the pleafureground, on a hill commanding a very extensive prospect, is a Chinese pagoda, one hundred and twenty feet high, built by the duke, in commemoration of the persons who vifited him in his exile. On the walls of the first room in it their names are engraven on marble tablets. The number and rank of the persons do honour to the duke and to themselves. The idea was a happy one. The forest you look down on from this building is very extensive; they say eleven leagues across: ridings are cut pointing to the pagoda; and when the duke was alive, thefe glades had the mifchieyous animation of a valt hunt, supported so liberally as to ruin the master of it, and transferred the property of this noble estate and residence from his family to the last hands I should wish to see it in-a prince of the blood. Great lords love too much an environ of forells, boars, and huntimen, intlead of marking their refidence by the accompaniment of neat and well cultivated farms, clean cottages, and happy peafants. In such a method of shewing their magnificence, rearing forests, gilding domes, or bidding aspiring columns rife, might be wanted; but they would have, instead of them, erections of comfort, eflablishments of ease, and plantations of felicity: and their harvest, instead of the flesh of boars, would be in the voice of cheerful gratitude-they would fee public prosperity slourish on its best basis of private happiness. -As a farmer, there is one feature which shews the Duke de Choiseul had some merit: he built a noble cow-house; a platform leads along the middle, between two rows of mangers, with flalls for feventy-two, and another apartment, not fo large, for others. and for calves. He imported one hundred and twenty very fine Swifs cows, and vifited them with his company every day, as they were kept constantly tied up. To this I may add the belt built sheep house I have seen in France: and I thought I saw from the pagoda part of the farm better laid out and ploughed than common in the country, fo that he probably imported fome ploughmen. - This has merit in it; but it was all the merit of banishment. Chanteloup would neither have been built, nor decorated, VOL. IV.

nor furnished, if the duke had not been exiled. It was the same with the Duke d'Aguillon. These ministers would have abominated the country, instead of rearing such edifices, or forming such establishments, if they had not both been sent from Verfailles. View the manufacture of steel at Amboise, established by the Duke de Choi-

feul. Vineyards the chief feature of agriculture. 37 miles.

The 11th. To Blois, an old town, prettily fituated on the Loire, with a good stone bridge of eleven arches. We viewed the castle, for the historical monument it affords that has rendered it fo famous. They shew the room where the council assembled, and the chimney in it before which the Duke of Guife was flanding when the king's page came to demand his prefence in the royal closet: the door he was entering when Itabbed: the tapeltry he was in the act of turning afide: the tower where his brother the cardinal fuffered; with a hole in the floor into the dungeon of Louis XI. of which the guide tells many horrible stories, in the same tone, from having told them fo often, in which the fellow in Westminster Abbey gives his monotonous history of the tombs. The best circumstance attending the view of the spots, or the walls within which great, daring, or important actions have been performed, is the impreffion they make on the mind, or rather on the heart of the spectator, for it is an emotion of feeling, rather than an effort of reflection. The murders, or political executions perpetrated in this castle, though not uninteresting, were inslicted on, and caufed by men who command neither our love, nor our veneration. The character of the period, and of the men that figured in it, were alike difgulling. Bigotry and ambition, equally dark, infidious, and bloody, allow no feelings of regret. Quit the Loire, and pals to Chambord. The quantity of vines is great; they have them very flourishing on a flat poor blowing fand. How well fatisfied would my friend Le Blanc be if his poorest fands at Cavenham gave him a hundred dozen of good wine per acre per annum! See at one coup d'ail two thousand acres of them. View the royal chateau of Chambord, built by that magnificent prince Francis I. and inhabited by the late Marechal de Saxe. I had heard much of this caltle, and it more than answered my expectation. It gives a great idea of the fplendour of that prince. Comparing the centuries, and the revenues of Louis XIV. and Francis I. I prefer Chambord infinitely to Verfailles. The apartments are large, numerous, and well contrived. I admired the flone flair-case in the centre of the house, which, being in a double spiral line, contains two diffinct flair-cases, one above another, by which means people are going up and down at the fame time, without feeing each other. The four apartments in the attic, with arched flone roofs, were in no mean tafte. One of these Count Saxe turned into a neat well contrived theatre. We were shewn the apartment which that great foldier occupied, and the room in which he died. Whether in his bed or not is yet a problem for ancedote hunters to folve. A report not uncommon in France was, that he was run through the heart in a duel with the Prince of Conti, who came to Chambord for that purpose; and great care was taken to conceal it from the king (Louis XV.), who had fuch a friendfhip for the marechal, that he would certainly have driven the prince out of the kingdom. There are fevera apartments modernized, either for the marechal or for the governors that have refided here frace. In one there is a fine picture of Louis XIV. on horseback. Near the castle are the barracks for the regiment of fifteen handred horfe, formed by Marechal de Saxe, and which Louis XV. gave him, by appointing them to garrifon Chambord while their colonel made it his refidence. He lived here in great fplendour, and highly refpected by his fovereign. and the whole kingdom. - The tituation of the callle is bad; it is low, and without the least prospect that is interesting; indeed the whole country is so flat that a high

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ground is hardly to be found in it. From the battlements we faw the environs, of which the park or forest forms three-fourths; it contains within a wall about twenty thousand arpents, and abounds with all forts of game to a degree of profusion. Great tracks of this park are waste or under heath, &c. or at least a very impersect cultivation; I could not help thinking, that if the King of France ever formed the idea of establishing one complete and perfect farm under the turnip culture of England, here is the place for it. Let him affign the chatcau for the refidence of the director and all his attendants; and the barracks, which are now applied to no use whatever, for stalls for cattle, and the profits of the wood would be fufficient to flock and support the whole undertaking. What comparifou between the utility of fucli an effablishment, and that of a much greater expense applied here at prefent for supporting a wretched haras (flud), which has not a tendency but to mischief! I may recommend such agricultural establishments, but they never were made in any country, and never will be, till mankind are governed on principles abfolutely contrary to those which prevail at prefent—until fomething more be thought requifite for a national hufbandry than academies and memoirs. ____35 miles.

The 12th. In two miles from the park wall regain the high road on the Loire. In discourse with a vigneron, we were informed that it froze this morning hard enough to damage the vines; and I may observe, that for four or five days past the weather has been constantly clear, with a bright sun, and so cold a north-east wind as to resemble much our cold clear weather in England in April; we have all our great coats on the whole day. Dine at Clarey, and view the monument of that able but bloody tyrant Louis XI. in white marble; he is represented in a kneeling posture, praying forgiveness, I suppose, which doubtless was promised him by his priests for his basenesses and his murders. Reach Orleans—30 miles.

The 13th. Here my companions wanting to return as foon as possible to Paris, took the direct road thither; but, having travelled it before, I preferred that by Petivier in the way to Fontainbleau. One motive for my taking this road was its paffing by Denainvilliers, the feat of the late celebrated Monf. du Hamel, where he made those experiments in agriculture which he has recited in many of his works. At Petivier I was just by it and walked thither for the pleasure of viewing grounds I had read of fo often, confidering them with a fort of claffic reverence. His homme d'affaire, who conducted the farm being dead, I could not get many particulars to be depended upon. Monf. Fougeroux, the prefent possessor, was not at home, or I should doubtlefs have had all the information I wished. I examined the foil, a principal point in all experiments, when conclusions are to be drawn from them; and I took also notes of the common hufbandry. Learning from the labourer who attended me that the drill-ploughs, &c. were yet in being, on a loft in one of the offices, I viewed them with pleafure, and found them, as well as I can remember, very accurately represented in the plates which their ingenious author has given. I was glad to find them laid up in a place out of common traffic, where they may remain fafe till fome other farming traveller, as enthufialtic as myfelf, may view the venerable remains of a ufeful genius. Here is a stove and bath for drying wheat, which he has described also. In an inclofure behind the house is a plantation of various curious exotic trees, finely grown, also several rows of ash, elm, and poplar along the roads, near the chateau, all planted by Monf. du Hamel. It gave me still greater pleasure to find that Denainvilliers is not an inconfiderable effate. The lands extensive; the chateau respectable; with offices, gardens, &c. that prove it the refidence of a man of fortune; from which it appears, that this indefatigable author, however he might have failed in fome of his purfuits,

met with that reward from his court which did it credit to bestow; and that he was not, like others, left in obscurity to the simple rewards which ingenuity can confer on itself. Four miles before Malsherbs a fine plantation of a row of trees on each side the road begins, formed by Mons. de Malsherbs, and is a striking instance of attention to the decorating of an open country. More than two miles of them are mulberries. They join his other noble plantations at Malsherbs, which contain a great variety of the

most curious trees that have been introduced in France. _____36 miles.

The 14th. After pading three miles through the forest of Fontainbleau, arrive at that town, and view the royal palace, which has been fo repeatedly added to by feveral kings, that the share of Francis I. its original founder, is not easily ascertained. He does not appear to such advantage as at Chambord. This has been a favourite with the Bourbons, from there having been to many Nimrods of that family. Of the apartments which are fliewn here, the King's, the Queen's, Monfieur's, and Madame's, are the chief. Gilding feems the prevalent decoration: but in the queen's cabinet it is well and elegantly employed. The painting of that delicious little room is exquifite; and nothing can exceed the extremity of ornament that is here with tafte beflowed. The tapestries of Beauvais and the Gobelins are seen in this palace to great advantage. I liked to fee the gallery of Francis I. preferved in its ancient state, even to the andirons in the chimney, which are those that served that monarch. The gardens are nothing; and the great canal, as it is called, not to be compared with that at Chantilly. In the pond that joins the palace are carp as large and as tame as the Prince of Condé's. The landlord of the ian at Fontainbleau thinks that royal palaces should not be seen for nothing; he made me pay 10 livres for a dinner, which would have cost me not more than half the money at the star and garter at Richmond. Reach Meulan .-34 miles.

The 15th. Crofs, for a confiderable distance, the royal oak forest of Senár.—About Montgeron, all open fields, which produce corn and partridges to eat it, for the number is enormous. There is on an average a covey of birds on every two acres, besides favourite spots, where they abound much more. At St. George the Seine is a much more beautiful river than the Loire. Enter Paris once more, with the same observation I made before, that there is not one-tenth of the motion on the roads around it that there is around London. To the hotel de la Rochesoucauld,——

20 miles.

The 16th. Accompanied the Count de la Rochefoucauld to Liancourt. 38

miles.

I went thither on a visit for three or four days; but the whole family contributed fo generally to render the place in every respect agreeable, that I staid more than three weeks. At about half a mile from the chateau is a range of hill that was chiefly a neglected waste: the Dake of Liancourt has lately converted this into a plantation, with winding walks, benches, and covered feats, in the English stile of gardening. The fituation is very fortunate. These ornamented paths follow the edge of the declivity to the extent of three or four miles. The views they command are every where pleasing, and in some places great. Nearer to the chateau the Duchess of Liancourt has built a menagerie and dairy in a pleasing taste. The cabinet and ante-room are very pretty; the saloon elegant, and the dairy entirely constructed of marble. At a village near Liancourt, the duke has established a manufacture of linen and stussed with thread and cotton, which promises to be of considerable utility; there are twenty-five looms employed, and preparations making for more. As the spinning for these looms is also established, it gives employment to great numbers of hands who

were idle, for they have no fort of manufacture in the country, though it is populous. Such efforts merit great praife. Connected with this is the execution of an excellent plan of the duke's for establishing habits of industry in the rising generation. The daughters of the poor people are received into an institution to be educated to useful industry; they are instructed in their religion, taught to write and read, and to spin cotton; are kept till marriageable, and then a regulated proportion of their earnings given them as a marriage portion. There is another establishment of which I am not so good a judge; it is for training the orphans of soldiers to be soldiers themselves. The Duke of Liancourt has raised some considerable buildings for their accommodation, well adapted to the purpose. The whole is under the superintendance of a worthy and intelligent officer, Monsieur le Roux, captain of dragoons, and Croix de St. Louis, who examines every thing himself

There are at present one hundred and twenty boys, all dressed in uniform.—My ideas have all taken a turn which I am too old to change; I should have been better pleased to have seen one hundred and twenty lads educated to the plough, in habits of culture superior to the present; but certainly the establishment

is humane, and the conduct of it excellent.

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The ideas I had formed, before I came to France, of a country refidence in that kingdom, I found at Liancourt to be far from correct. I expected to find it a mere transfer of Paris to the country, and that all the burthensome forms of a city were preserved, without its pleasures: but I was deceived: the mode of living, and the purfuits, approach much nearer to the habits of a great nobleman's house in England, than woul commonly be conceived. A breakfalt of tea for those who chose to repair to it; riding, sporting, planting, gardening, till dinner, and that not till half after two o'clock, instead of their old fashioned hour of twelve; music, chess, and the other common amusements of a rendezvous-room, with an excellent library of seven or eight thousand volumes, were well calculated to make the time pass agreeably; and to prove that there is a great approximation in the modes of living at present in the different countries of Europe. Amusements, in truth, ought to be numerous within doors; for in fuch a climate, none are to be depended on without: the rain that has fallen here is hardly credible. I have, for five-and-twenty years past, remarked in England, that I never was prevented by rain from taking a walk every day without going out while it actually rains; it may fall heavily for many hours; but a person who watches an opportunity gets a walk or a ride. Since I have been at Liancourt, we have had three days in fuccession of such incessantly heavy rain, that I could not go an hundred yards from the house to the duke's pavilion, without danger of being quite wet. For ten days more rain fell here, I am confident, had there been a gauge to measure it. than ever fell in England in thirty. The prefent fashion in France, of passing some time in the country is new; at this time of the year, and for many weeks past, Paris is, comparatively fpeaking, empty. Every body who has a country-feat is at it; and fuch as have none vilit others who have. This remarkable revolution in the French manners is certainly one of the best customs they have taken from England; and its introduction was effected the easier, being assisted by the magic of Rousseau's writings. Mankind are much indebted to that fplendid genius, who, when living, was hunted from country to country, to feek an afylum, with as much venom as if he had been a mad dog; thanks to the vile spirit of bigotry, which has not yet received its death's wound. Women of the first fashion in France are now ashamed of not nursing their own children; and stays are universally profcribed from the bodies of the poor infants, which were for fo many ages tortured in them, as they are still in Spain. The country

ject.

refidence may not have effects equally obvious; but they will be no less fure in the end,

and in all respects beneficial to every class in the state.

The duke of Liancourt being prefident of the provincial affembly of the election of Clermont, and pading feveral days there in bufiness, asked me to dine with the affembly, as he faid there were to be some confiderable farmers present. These assemblies were to me interesting to fee. I accepted the invitation with pleasure. Three confiderable farmers, renters, not proprietors of land, were members, and prefent. I watched their carriage narrowly, to fee their behaviour in the prefence of a great lord of the first rank, considerable property, and high in royal favour; and it was with pleasure that I found them behaving with becoming eafe and freedom, and though mode 4, and without any thing like flippancy, yet without any obfequioufness offensive to English They feart d their opinions freely and adhered to them with becoming confidence. A more fingular spectacle was to see two ladies present at a dinner of this fort, with five or fix-and-twenty gentlemen; fuch a thing could not happen in England. To fay that the French manners, in this respect, are better than our own, is the affertion of an obvious truth. If the ladies be not prefent at meetings where the convertation has the greatest probability of turning on subjects of more importance than the frivolous topics of common difcourfe, the fex must either remain on the one hand in ignorance, or on the other, be filled with the foppery of education, learned, affected, and forbidding. The conversation of men, not engaged in trifling pursuits, is the best school for the education of a woman.

The political conversation of every company I have seen has turned much more on the affairs of Holland than on those of France. The preparations going on for a war with Figland are in the mouths of all the world; but the finances of France are in fuch a flate of derangement, that the people best informed affert a war to be impossible; the Marquis of Verac, the late French ambaffador at the Hague, who was fent thither, as the English politicians affert, expressly to bring about a revolution in the government, has been at Liancourt three days. It may eafily be supposed, that he is cautious in what he fays in fuch a mixed company; but it is plain enough, that he is well perfuaded that that revolution, change, or leffening the Stadtholder's power; that plan, in a word, whatever it was, for which he negociated in Holland, had for fome time been matured and ready for execution, almost without a possibility of failure, had the Count de Vergennes confented, and not fpun out the business by refinement on refinement, to make himself the more necessary to the French cabinet; and it unites with the idea of fome fenfible Dutchmen, with whom I have converfed on the fub-

During my stay at Liancourt, my friend Lazowski accompanied me on a little excurfion of two days to Ermenonville, the celebrated feat of the Marquis de Girardon. We passed by Chantilly to Morefountain, the country-seat of Monsseur de Morefountain, prevost des merchands of Paris; the place has been mentioned as decorated in the English style. It consists of two scenes; one a garden of winding walks, and ornamented with a profusion of temples, benches, grottos, columns, ruins, and I know not what; I hope the French who have not been in England, do not confider this as the English tafte. It is in fact as remote from it as the most regular style of the last age. The water view is fine. There is a gaiety and cheerfulness in it that contrast well with the brown and unpleasing hills that furround it, and which partake of the waste character of the worst part of the surrounding country. Much has been done here; and it wants but few additions to be as perfect as the ground admits.

Reach

Reach Ermenonville, through another part of the Prince of Condé's forest, which joins the ornamented grounds of the Marquis Girardon. This place, after the refidence and death of the perfecuted but immortal Rouffeau, whose tomb every one knows is here, became fo famous as to be reforted to very generally. It has been described, and plates published of the chief views; to enter into a particular description would therefore be tirefome; I shall only make one or two observations, which I do not recollect have been touched on by others. It confifts of three diffinct water feenes; or of two lakes and a river. We were first shewn that which is so famous for the fmall ifle of poplars, in which repofes all that was mortal of that extraordinary and inimitable writer. This feene is as well imagined, and as well executed as could be wished. The water is between forty and fifty acres; hills rife from it on both fides, and it is fufficiently closed in by tall wood at both ends, to render it fequestered. The remains of departed genius stamp a melancholy idea, from which decoration would depart too much, and accordingly there is little. We viewed the scene in a still evening. The declining fun threw a lengthened shade on the lake, and filence feemed to repose on its unrufiled bosom; as some poet says, I forget who. The worthies to whom the temple of philosophers is dedicated, and whose names are marked on the columns, are Newton, Luccm.—Defcartes, Nil in rebus inane.—Voltaire, Ridiculum.—Rouffeau, Naturam.—And on another unfinished column, Quis boc perficiet? The other lake is larger; it nearly fills the bottom of the vale, around which are fome rough, rocky, wild, and barren fand hills; either broken or spread with heath; in some places wooded, and in others feattered thinly with junipers. The character of the feene is that of wild and undecorated nature, in which the hand of art was meant to be concealed as much as was confishent with ease of access. The last scene is that of a river, which is made to wind through a lawn, receding from the house, and broken by wood; the ground is not fortunate; it is too dead a flat, and no where viewed to much advantage.

From Ermenonville we went, the morning after, to Braffeufe, the feat of Madame du Pont, fifter of the Duchess of Liancourt. What was my surprise at finding this Viscountels a great farmer! A French lady, young enough to enjoy all the pleasures of Paris, living in the country, and minding her farm, was an unlooked-for spectacle. She has probably more lucerne than any other person in Europe—two hundred and fifty arpents. She gave me, in a most unaffected and agreeable manner, intelligence about her lucerne and dairy; but of that more ellewhere. Returned to Liancourt by Pont, where there is a handsome bridge of three arches, the construction uncommon, each pier consisting of four pillars, with a towing-pa b under one of the arches for the

barge-horfes, the river being navigable.

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Amongst the morning anusements I partook at Liancourt was la chasse. In deer shooting, the sportsner place themselves at distances around a wood, then beat it, and foldom more than one in a company gets a shot; it is more tedious than is easily conceived; like angling, incessant expectation, and perpetual disappointment. Partridge and hare shooting are almost as different from that of England. We took this diversion in the sine vale of Catnoir, sive or six miles from Liancourt; arranging ourselves in a sile at about thirty yards from person to person, and cach with a fervant and a loaded gan, ready to present when his master sires; thus we marched across and across the vale, treading up the game. Four or sive brace of hares, and twenty brace of partridges were the spoils of the day. I like this mode of shooting but little better than waiting for deer. The best circumstance to me of exercise in company (it was not so once) is the settivity of the dinner at the close of the day. To enjoy this, it must not be pushed to great satigue. Good spirits, after violent exercise, are

always the affectation of filly young folks (I remember being that fort of fool myfelf when I was young), but with fomething more than moderate, the exhibitantion of body is in unifon with the flow of temper, and agreeable company is then delicious. On fuch days as these we were too late for the regular dinner, and had one by ourselves, with no other dressing than the refreshment of clean linen; and these were not the repails when the duches's champaigne had the worlt flavour. A man is a poor creature who does not drink a little too much on fuch occasions: mais prenez-y garde: repeat it often; and you may make it a mere drinking party, the luftre of the pleafure fades, and you become what was an English fox-hunter. One day while we were thus dining à l'Anglois, and drinking the plough, the chace, and I know not what, the Duchefs of Liancourt and some of her ladies came in sport to see us. It was a moment for them to have betraved ill-nature in the contempt of manners not French, which they might have endeavoured to conceal under a laugh; -but nothing of this; it was a good humoured cariofity; a natural inclination to fee others pleafed and in fpirits. Ils ont été de grands chasseurs aujourd'hui, said one. Oh! ils s'applaudissent de leurs exploits. Do they drink the gun? faid another. Leurs maitreffes certainement, added a third. J'aime à les voir en gaiété; il y a quelque chose d'aimable dans tout ceci. To note such trifles may feem superfluous to many; but what is life when trifles are withdrawn? They mark the temper of a nation better than objects of importance. In the moments of council, victory, flight, or death, mankind, I suppose, are nearly the same. Trifles discriminate better, and the number is infinite that gives me an opinion of the good temper of the French. I am fond neither of a man nor a recital that can appear only on filts, and dreffed in holiday geers. It is every day feelings that decide the colour of our lives; and he who values them the most plays the best for the slake of happiness. But it is time to quit Liancourt, which I do with regret. Take leave of the good old Duchess d'Estissac, whose hospitality and kindness ought ever to be remembered.— 51 miles.

The 9th, 10th, and 11th. Return by Beauvais and Pontoise, and enter Paris for the fourth time, confirmed in the idea that the roads immediately leading to that capital are deserts, comparatively speaking, with those of London. By what means can the connection be carried on with the country? The French must be the most stationary people upon earth, when in a place they must rest without a thought of going to another; or the English must be the most restless; and find more pleasure in moving from one place to another, than in resting to enjoy life in either. If the French nobility went only to their country seats when existed thither by the court, the roads

could not be more folitary. ____25 miles.

The 12th. My intention was to take lodgings; but on arriving at the hotel de la Rochefoucauld, I found that my hospitable duchess was the same person at the capital as in the country; she had ordered an apartment to be ready for me. It grows so late in the season, that I shall make no other stay here than what will be necessary for viewing public buildings. This will unite well enough with delivering some letters I brought to a few men of science; and it will leave me the evenings for the theatres, of which there are many in Paris. In throwing on paper a rapid coup decil of what I see of a city, so well known in England, I shall be apt to delineate my own ideas and seelings, perhaps more than the objects themselves; and be it remembered, that I profess to dedicate this careless itinerary to trisles, much more than to objects that are of real confequence. From the tower of the cathedral, the view of Paris is complete. It is a vast city, even to the eye that has seen London from St. Paul's; a circular form gives an advantage to Paris; but a much greater is the atmosphere. It is now so clear, that

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one would suppose it the height of summer: the clouds of coal-smoke that envelope London, always prevent a distinct view of that capital, but I take it to be one-third at least larger than Paris. The buildings of the parliament house are disfigured by a gilt and taudry gate, and a French roof. The hotel des Monoies is a fine building; and the façade of the Louvre one of the most elegant in the world, because they have (to the eye) no roofs; in proportion as a roof is feen, a building fuffers. I do not recollect one edifice of diftinguished beauty (unless with domes) in which the roof is not so flat as to be hidden, or nearly so. What eyes then must the French architects have had, to have loaded fo many buildings with coverings of a height destructive of all beauty? Put fuch a roof as we fee on the parliament house or on the Thuilleries, upon the façade of the Louvre, and where would its beauty be?-At night to the opera, which I thought a good theatre, till they told me it was built in fix weeks; and then it became good for nothing in my eyes, for I suppose it will be tumbling down in six years. Durability is one of the effentials of building: what pleafure would a beautiful front of painted pasteboard give? The Alceste of Gluck was performed; that part by Mademoiselle St. Huberti, their first singer, an excellent actress. As to scenes, dreffes, decorations, danting, &c. this theatre is much superior to that in the Haymarket.

The 13th. Across Paris to the rue de blancs Manteaux, to Mons. Broussonet, fecretary of the Society of Agriculture; he is in Burgundy. Called on Mr. Cook from London, who is at Paris with his drill plough, waiting for weather to fhew its performance to the Duke of Orleans: this is a French idea, improving France by drilling. A man should learn to walk before he learns to dance. There is agility in cutting capers, and it may be done with grace; but where is the necessity to cut them at all? There has been much rain to-day; and it is almost incredible to a person used to London, how dirty the streets of Paris are, and how horribly inconvenient and dangerous walking is without a foot-pavement. We had a large party at dinner, with politicians among them, and fome interesting conversation on the present state of France. The feeling of every body feems to be that the archbifhop will not be able to do any thing towards exonerating the flate from the burthen of its prefent fituation; fome think that he has not the inclination; others that he has not the courage; others that he has not the ability. By fome he is thought to be attentive only to his own interest; and by others, that the finances are too much deranged to be within the power of any fyshem to recover, short of the states-general of the kingdom; and that it is impossible for such an assembly to meet without a revolution in the government enfuing. All feem to think that fomething extraordinary will happen; and a bankruptcy is an idea not at all uncommon. But who is there that will have the courage to make it?

The 14th. To the Benedictine abbey of St. Germain, to fee pillars of African marble, &c. It is the richelt abbey in France: the abbot has 300,000 fivres a year (13,125l.) I lofe my patience at feeing fuch revenues thus beflowed; confiftent with the fpirit of the tenth century, but not with that of the eighteenth. What a noble farm would a fourth of this income eltablish! what turnips, what cabbages, what potatoes, what clover, what sheep, what wool!—Are not these things better than a fat ecclessialtic? If an active English farmer were mounted behind this abbot, I think he would do more good to France with half the income than half the abbots of the kingdom with the whole of theirs. Pass the Basilie; another pleasant object to make agreeable emotions vibrate in a man's botom. I fearch for good farmers, and run my head at every turn against monks and state prisons.—To the arsenal, to wait on Mons.

Lavoisier, the celebrated chemist, whose theory of the non-existence of phlogiston has made as much noise in the chemical world as that of Stahl, which established its existence. Dr. Priestley had given me a letter of introduction. I mentioned in the course of conversation his laboratory, and he appointed Tuesday. By the Boulevards, to the Place Louis XV. which is not properly a fquare, but a very noble entrance to a great city. The façades of the two buildings erected are highly finished. The union of the Piace Louis XV. with the champs Elifecs, the gardens of the Thuilleries and the Seine is open, airy, elegant, and fuperb; and is the most agreeable and best built part of Paris; here one can be clean and breathe freely. But by far the finest thing I have yet feen at Paris is the Halle aux bleds, or corn market; it is a vast rotunda; the roof entirely of wood, upon a new principle of carpentry, to describe which would demand plates and long explanations; the gallery is one hundred and fifty yards round, confequently the diameter is as many feet. It is as light as if fuspended by the fairies. In the grand area, wheat, peale, beans, lentils, are stored and fold. In the furrounding divitions, flour on wooden stands. You pass by stair-cases doubly winding within each other to spacious apartments for rye, barley, oats, &c. The whole is to well planned, and to admirably executed, that I know of no public building that exceeds it either in France or England. And if an appropriation of the parts to the conveniencies wanted, and an adaptation of every circumstance to the end required, in union with that elegance which is confiftent with use, and that magnificence which refults from flability and duration, be the criteria of public edifices, I know nothing that equals it :- it has but one fault, and that is fituation; it should have been upon the banks of the river, for the convenience of unloading barges without land carriage. In the evening, to the Comedie Italienne; the edifice fine; and the whole quarter regular and new built, a private speculation of the Duke de Choiseul, whose family has a box entailed for ever .- L'Aimant jaloux. Here is a young finger, Mademoifelle Renard, with fo fweet a voice, that if the fung Italian, and had been taught in Italy, would have made a delicious performer.

To the tomb of Cardinal de Richlieu, which is a noble production of genius: by far the finest statue I have seen. Nothing can be imagined more easy and graceful than the attitude of the cardinal, nor can nature be more expressive than the figure of weeping science. Dine with my friend at the Palais Royal at a cosse-house; well dressed people; every thing clean, good, and well served: but here, as every where else, you pay a good price for good things; we ought never to forget that a low price for bad things is not cheapness. In the evening to Tecole des Peres, at the Comedie Françuse, a crying larmoyant thing. This theatre, the principle one at Paris, is a fine building, with a magnificent portico. After the circular theatres of France, how

can any one relish our ill-contrived oblong holes of London?

The 16th. To Monf. Lavoifier, by appointment. Madame Lavoifier, a lively, fenfible, fcientific lady, had prepared a dejeuné Anglois of tea and coffee; but her converfation on Mr. Kirwan's Effity on Phlogitton, which the is translating from the English, and on other subjects, which a woman of understanding, who works with her husband in his laboratory, knows how to adorn, was the best repast. That apartment, the operations of which have been rendered so interesting to the philosophical world, I had the pleasure of viewing. In the apparatus for acrial experiments, nothing makes so great a figure as the machine for burning inflammable and vital air, to make, or deposit water; it is a splendid machine. Three vessels are held in suspension with indexes for marking the immediate variations of their weights; two, that are as large as half hogsheads, contain the one indammable, the other the vital air, and a tube of

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communication passes to the third, where the two airs unite and burn; by contrivances, too complex to describe without plates, the loss of weight of the two airs, as indicated by their respective balances, equal at every moment to the gain in the third vesfel from the formation or deposition of the water, it not being yet ascertained whether the water be actually made or deposited. If accurate (of which I must confess I have little conception), it is a noble machine. Monf. Lavoifier, when the structure of it was commended, said Mais oui : micur, & meme par un artiste François! with an accent of voice that admitted their general inferiority to ours. It is well known that we have a confiderable exportation of mathematical and other curious infirmments to every part of Europe, and to France among the reft. Nor is this new, for the apparatus with which the French academicians measured a degree in the polar circle was made by Mr. George Graham *. Another engine Monf. Lavoifier shewed us was an electrical apparatus inclosed in a balloon, for trying electrical experiments in any fort of air. His pond of quickfilver is confiderable, containing 250lb, and his water apparatus very great, but his furnaces did not feem fo well calculated for the higher degrees of heat as fome others I have feen. I was glad to find this gentleman fplendidly lodged, and with every appearance of a man of confiderable fortune. This ever gives one pleasure: the employments of a state can never be in better hands than of men who thus apply the superfluity of their wealth. From the use that is generally made of money, one would think it the affiftance of all others of the leaft confequence in effecting any bufiness truly useful to mankind, many of the great discoveries that have enlarged the horizon of fcience having been in this respect the result of means seemingly inadequate to the end: the energetic exertions of ardent minds, bursting from obscurity, and breaking the bands inflicted by poverty, perhaps by diftrefs. To the hotel des invalids, the major of which establishment had the goodness to shew the whole of it. In the evening to Monf. Lomond, a very ingenious and inventive mechanic, who has made an improvement of the jenny for spinning cotton. Common machines are faid to make too hard a thread for certain fabrics, but this forms it loofe and spongy. In electricity he has made a remarkable difcovery: you write two or three words on a paper; he takes it with him into a room, and turns a machine inclosed in a cylindrical case, at the top of which is an electrometer, a small fine pith ball; a wire connects with a fimilar cylinder and electrometer in a distant apartment; and his wife, by remarking the corresponding motions of the ball, writes down the words they indicate: from which it appears that he has formed an alphabet of motions. As the length of the wire makes no difference in the effect, a correspondence might be carried on at any distance: within and without a besieged town for instance; or for a purpose much more worthy, and a thousand times more harmless, between two lovers prohibited or prevented from any better connection. Whatever the use may be, the invention is beautiful. Monf. Lomond has many other curious machines, all the entire work of his own hands: mechanical invention feems to be in him a natural propenfity. In the evening to the Comedie Française. Mola did the Bourru Bienfaisant, and it is not easy for acting to be carried to greater perfection.

The 17th. To Monf. l'Abbé Messier, asseromer royal, and of the Academy of Sciences. View the exhibition, at the Louvre, of the academy's paintings. For one history piece in our exhibitions at London here are ten; abundantly more than to balance the difference between an annual and biennial exhibition. Dined to-day with a party, whose conversation was entirely political. Monf. de Calonne's Requéte au Roi

^{*} Whitehurst's Formation of the Earth, 2d edit. p. 6.

is come over, and all the world are reading and disputing on it. It seems, however, generally agreed that, without exonerating himself from the charge of the agiotage, he has thrown no inconfiderable load on the floudders of the archbifliop of Toulouze, the prefent premier, who will be puzzled to get rid of the attack. But both thefe miniflers were condemned on all hands in the lump; as being abfolutely unequal to the difficulties of fo arduous a period. One opinion pervaded the whole company, that they are on the eve of fome great revolution in the government: that every thing points to it: the confusion in the finances great; with a deficit impossible to provide for without the flates-general of the kingdom, yet no ideas formed of what would be the confequence of their meeting: no minifler existing, or to be looked to in or out of power, with such decisive talents as to promife any other remedy than palliative ones: a prince on the throne, with excellent dispositions, but without the resources of a mind that could govern in fuch a moment without ministers: a court buried in pleafure and diffipation; and adding to the diffrefs, inflead of endeavouring to be placed in a more independent fituation: a great ferment amongst all ranks of men, who are eager for some change, without knowing what to look to, or to hope for :: and a strong leaven of liberty, increasing every hour since the American revolution; altogether form a combination of circumflances that promife ere long to ferment into motion, if fome mafter hand, of very fuperior talents, and inflexible courage, be not found at the helm to guide events, inflead of being driven by them. It is very remarkable, that fuch conversation never occurs, but a bankruptcy is a topic: the curious queflion on which is, would a bankruptcy occasion a civil war, and a total overthrow of the government? The answers that I have received to this question appear to be just: fuch a measure, conducted by a man of abilities, vigour, and firmness, would certainly not occasion either one or the other. But the same measure, attempted by a man of a different character, might possibly do both. All agree, that the slates of the kingdom cannot affemble without more liberty being the confequence; but I meet with fo few men who have any just ideas of freedom, that I question much the species of this new liberty that is to arife. They know not how to value the privileges of the people: as to the nobility and the clergy, if a revolution added any thing to their scale, I think it would do more mischief than good *.

The 18th. To the Gobelius, which is undoubtedly the first manufacture of tapestry in the world, and such an one as could be supported by a crowned head only. In the evening to that incomparable comedy La Metromanie, of Pyron, and well acted. The more I see of it, the more I like the French theatre; and have no doubt in preferring it far to our own. Writers, actors, buildings, seenes, decorations, music, dancing, take the whole in a mass, and it is unrivalted by London. We have certainly a few brilliants of the first water; but to throw all in the scales that of England kicks the beam. I write this passage with a lighter heart than I should do were it giving the

palm to the French plough.

The 19th. To Charenton, near Paris, to fee l'Ecole Veterinaire, and the farm of the Royal Society of Agriculture. Monf. Chabert, the directeur-general, received us with the most attentive politeness. Monf. Flandrein, his assistant, and fon-in-law, I had had the pleasure of knowing in Susfolk. They shewed the whole veterinary establishment, and it does honour to the government of France. It was formed in

[•] In transcribing these papers for the press. I smile at some remarks and circumstances which events have since placed in a singular position; but I alter more of these passages; they explain what were the opinions in France, before the revolution, on topics of importance; and the events which have since taken place render them the more interesting. June, 1790,

1766: in 1783 a farm was annexed to it, and four other profesforships established; two for rural economy, one for anatomy, and another for chemistry. - I was informed that Monf. d'Aubenton, who is at the head of this farm with a falary of 6000 livres a year, reads lectures of rural occonomy, particularly on theep, and that a flock was for that purpose kept in exhibition. There is a spacious and convenient apartment for differting horfes and other animals; a large cabinet, where the most interesting parts of all domeflic animals are preferved in fpirits; and also of such parts of the bodies that mark the visible effect of diffempers. This is very rich. This, with a fimilar one near Lyons, is kept up 'exclusive of the addition of 1783) at the moderate expence, as appears by the writings of M. Necker, of about 6,000 livres (2600l.) Whence, as in many other inflances, it appears that the most useful things cost the leaft. There are at prefent about one hundred cleves from different parts of the kingdom, as well as from every country in Europe, except England; a ffrangé exception, confidering how grofsly ignorant our farriers are; and that the whole expence of fupporting a young man here does not exceed forty louis a year; nor more than four years necessary for his complete instruction. As to the farm, it is under the conduct of a great naturalitt, high in royal academies of science, and whose name is celebrated through Europe for merit in fuperior branches of knowledge. It would argue in me a want of judgment in human nature, to expect good practice from fuch men. They would probably think it beneath their purfuits and fituation in life to be good ploughmen, turnip-hoers, and fhepherds; I should therefore betray my own ignorance of life, if I were to express any surprize at finding this farm in a situation that I had rather forget than describe. In the evening, to a field much more successfully cultivated, Mademoifelle St. Huberti, in the Penelope of Picini.

The 20th. To the Ecole Militaire, established by Louis XV. for the education of one hundred and forty youths, the sons of the nobility; such establishments are equally trificulous and unjust. To educate the son of a man who cannot afford the education himself, is a gross injustice, if you do not secure a situation in life answerable to that education. If you do not secure such a situation, you destroy the result of the education, because nothing but merit ought to give that security. If you educate the children of men, who are well able to give the education themselves, you tax the people who cannot afford to educate their children, in order to ease those who can well afford the burthen; and, in such institutions, this is sure to be the case. At night to l'Ambigu Comique, a pretty little theatre, with plenty of rubbish on it. Cossee-houses on the boulevards, music, noise, and silles without end; every thing but scavengers and lamps. The mud is a foot deep; and there are parts of the boulevards without a

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The 21st. Mons. de Broussonet being returned from Burgundy, I had the pleafure of passing a couple of hours at his lodgings very agreeably. He is a man of uncommon activity, and possessed of a great variety of useful knowledge in every branch of natural history; and he speaks English perfectly well. It is very rare that a gentleman is seen better qualified for a post than Mons. de Broussonet for that which he oc-

cupies, as fecretary to a royal fociety.

The 22d. To the bridge of Neuilé, faid to be the finest in France. It is by far the most beautiful one I have any where seen. It consists of sive vast arches; slat, from the Florentine model; and all of equal span; a mode of building incomparably more elegant, and more striking than our system of different sized arches. To the machine at Marly; which ceases to make the least impression. Madame du Barré's residence, Lusienne, is on the hill just above this machine; she has built a pavision

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on the brow of the declivity, for commanding the prospect, fitted up and decorated with much elegance. There is a table formed of Seve porcelain, exquisitely done. I forget how many thousand louis d'ors it cost. The French, to whom I spoke of Lussienne, exclaimed against mistress and extravagance with more violence than reason in my opinion. Who, in common sense, would deny a king the amms ment of a mistress, provided he did not make a business of his play-thing. Mais Frederic le Grand avoit il une maitresse, hai fassit-il batir de pavillons, et les membloit-il de tables de percelaine? No: but he had that which was silty times word: a king had better make love to a handsome woman than to one of his neighbour's provinces. The king of Frussia's mistress cost an hundred millions sterling, and the lives of 500,000 men; and before the reign of that mistress is over, may yet cost as much more. The greatest genius and talents are lighter than a feather, weighed philosophically, if rapine, war, and conquest be the effects of them.

To St. Germain's, the terrace of which is very fine. Monfieur de Brouffonet met me here, and we dined with Monfieur Breton, at the Marechal due de Noailles, who has a good collection of curious plants. Here is the finest sophora japonica I have seen.

___io miles.

The 23d. To Trianon, to view the Queen's Jardin Anglois. I had a letter to Monsieur Richard, which procured admittance. It contains about one hundred acres, disposed in the taste of what we read of in books of Chinese gardening, whence it is supposed the English style was taken. There is more of Sir William Chambers here than of Mr. Brown—more effort than nature—and more expense than taste. It is not easy to conceive any thing that art can introduce in a garden that is not here; woods, recks, lawns, lakes, rivers, islands, cascades, grottos, walks, temples, and even villages. There are parts of the design very pretty, and well executed. The only sault is too much crouding, which has led to another, that of cutting the lawn by two many gravel walks, an error to be seen in almost every garden I have met with in France. But the glory of La Petite Trianon is the exotic trees and shrubs. The world has been successfully risled to decorate it. Here are curious and beautiful ones to please the eye of ignorance; and to exercise the memory of science. Of the buildings, the temple of

Love is truly elegant.

In viewing the king's apartment, which he had not left a quar-Again to Verfailles ter of an hour, with those flight traits of disorder that shewed he lived in it, it was amufing to fee the blackguard figures that were walking uncontrouled about the palace, and even in his bed-chamber; men whose rags betrayed them to be in the last flage of poverty, and I was the only perfor that flared and wondered how they got thither. It is impossible not to like this careless indifference and freedom from sufpicion. One loves the mafter of the house, who would not be hurt or offended at seeing his apartment thus occupied, if he returned fuddenly; for if there were danger of this, the intrusion would be prevented. This is certainly a feature of that good temper which appears to me so visible every where in trance. I defired to see the Queen's apartments, but I could not. Is her majetly in it? No. Why then not see it as well as the King's. Ma foi, Monf. c'est un autre chose. Ramble through the gardens, and by the grand canal, with absolute assonishment at the exaggeration of writers and travellers. There is magnificence in the quarter of the orangerie, but no beauty any where; there are fome statues good enough to be wished under cover. The extent and breadth of the canal are nothing to the eye; and it is not in fuch good repair as a farmer's horse pond. The menagerie is well enough, but nothing great. Let those who defire that the buildings and establishments of Louis XIV. should continue the impression

impression made by the writings of Voltaire, go to the canal of Languedoc, and by no means to Versailles. Return to Paris.——14 miles.

The 24th. With Monsieur de Broussonet to the king's cabinet of natural history and the botanical garden, which is in beautiful order. Its riches are well known, and the politeness of Monsieur Thouin, which is that of a most amiable disposition, renders this garden the scene of other rational pleasures besides those of botany. Dine at the Invalides, with Monsieur Parmentier, the celebrated author of many economical works, particularly on the boulangerie of France. This gentleman, to a considerable mass of useful knowledge, adds a great deal of that fire and vivacity for which his nation has been distinguished, but which I have not recognized so often as I ex-

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The 25th. This great city appears to be in many respects the most ineligible and inconvenient for the refidence of a person of small fortune of any that I have seen; and by far inferior to London. The fireets are very narrow, and many of them crowded, nine-tenths dirty, and all without foot-pavements. Walking, which in London is fo pleafant and so clean, that ladies do it every day, is here a toil and fatigue to a man, and an impossibility to a well dressed woman. The coaches are numerous, and what is much worfe, there is an infinity of one-horfe cabriolets, which are driven by young men of fashion and their imitators, alike fools, with such rapidity as to be real nuifances, and render the fireets exceedingly dangerous, without an inceffant caution. I faw a poor child run over and probably killed, and have been myfelf many times blackened with the mud of the kennels. This beggarly practice of driving a onehorse booby hutch about the streets of a great capital, slows either from poverty, or a wretched and despicable economy; nor is it possible to speak of it with too much feverity. If young noblemen at London were to drive their chaifes in streets without foot-ways, as their brethren do at Paris, they would speedily and justly get very well threshed, or rolled in the kennel. This circumstance renders Paris an ineligible refidence for persons, particularly families that cannot afford to keep a coach; a convenience which is as dear as at London. 'The fiacres, hackney-coaches, are much worfe than at that city; and chairs there are none, for they would be driven down in the fireets. To this circumftance also it must be ascribed, that all persons of small or moderate fortune, are forced to drefs in black, with black flockings; the dufky hue of this in company is not lo difugreeable a circumftance as being too great a diffinction; too clear a line drawn in company between a man that has a good fortune, and another that has not. With the pride, arrogance, and ill-temper of English wealth this could not be borne; but the prevailing good humour of the French eafes all fuch untoward circumstances. Lodgings are not half so good as at London, yet considerably dearer. If you do not hire a whole fuit of rooms at an hotel, you must probably mount three, four, or five pair of stairs, and in general have nothing but a bed-chamber. After the horrid fatigue of the flreets, fuch an elevation is a delectable circumflance. You must fearch with trouble before you will be lodged in a private family, as gentlemen ufually are at London, and pay a higher price. Servan's' wages are about the same as at that city. It is to be regretted that Paris should have these disadvantages, for in other respects I take it to be a neaft eligible refidence for such as prefer a great city. The society for a man of letters, or who has any fcientific purfuit, cannot be exceeded. The intercourfe between fuch men and the great, which, if it he not upon an equal footing, ought never to exist at all, is respectable. Persons of the highest rank pay an attention to Teichee and literature, and emulate the character they confer. I should pity the man who expected, without other advantages of a very different nature, to be well received

in a brilliant circle at London, because he was a fellow of the Royal Society. But this would not be the case with a member of the Academy of Sciences at Paris; he is sure of a good reception every where. Perhaps this contrast depends in a great measure on the difference of the governments of the two countries. Politics are too much attended to in England, to allow a due respect to be paid to any thing else; and should the French establish a freer government, academicians will not be held in such estimation, when rivalled in the public esteem by the orators who hold forth liberty and property in a free parliament.

The 28th. Quit Paris, and take the road to Flanders. Monfieur de Brouffonet was fo obliging as to accompany me to Dugny, to view the farm of Monfieur Cretté de Palluel, a very intelligent cultivator. Take the road to Senlis: at I mmertin, I met by accident a French gentleman, a Monfieur du Pré du St. Cotin. Hearing me converfing with a farmer on agriculture, he introduced himfelf as an amateur, gave me an account of feveral experiments he had made on his effate in Champagne, and promifed a more particular detail; in which he was as good as his word.

22 miles.

The 29th. País Nanteul, where the Prince of Condé has a chateau, to Villes-Coterets, in the midfl of immenfe forefls belonging to the Duke of Orleans. The crop of this country, therefore, is princes of the blood; that is to fay, hares, pheafants, deer, boars!——26 miles.

The 30th. Soiffons feems a poor town, without manufactures, and chiefly supported by a corn trade, which goes hence by water to Paris and Rouen.——25 miles.

The 31ft. Coucy is beautifully fituated on a hill, with a fine vale winding befide it. At St. Gobin, which is in the midft of great woods, I viewed the fabric of plate glafs, the greatest in the world. I was in high luck, arriving about half an hour before they began to run glaffs for the day. País La Fere. Reach St. Quintin, where are confiderable manufactures that employed me all the afternoon. From St. Gobin are the

most beautiful state roofs I have any where feen. _____30 miles.

November 1. Near Belle Angloife I turned afide half a league to view the canal of Picardy, of which I had heard much. In paffing from St. Quintin to Cambray the country rifes, fo that it was necessary to carry it in a tunnel under ground for a considerable depth, even under many vales as well as hills. In one of these vallies there is an opening for vifiting it by an arched flair-case, on which I descended one hundred and thirty four fleps to the canal, and as this valley is much below the adjacent and other hills, the great depth at which it is digged may be conceived. Over the door of the defcent, is the following infcription: - "1.' Ann. 1781. ----- Monf. le Comte d'Agay étant intendant de cette prevince, Monf. Laurent de Lionni étant directeur de l'ancien & nouveau canal de l'icardie, & Monf. le Champrofé inspecteur, Joseph II. Empereur Roi des Romaines, a parcoaru en batteau le canal fous terrain depuis cet endroit jufques au puit, No. 20, le 28, & a temoigné fa fatisfaction d'aveir vu cet ouvrage en ces termes: " Je fuis for d'être homme, quand je vois qu'un de mes femblables a ofé imaginer & executer un ouvrages aufli vaile et aufli hardie. Cette idea me leve l'ame.' " —Thefe three Metheurs lead the dance here in a very French flyle. The great Joseph follows humbly in their train; and as to poer Louis XVI, at whof expense the whole was done, these gentlemen c rtainly thought that no name less than that of an emperor ought to be annexed to theirs. When inferiptions are fixed to public works, no names ought to be permitted but those of the king, whose merit patronizes, and of the engineer or artial whole genius executes the work. As to a mob of intendants, directors, and inspectors, let them be forgotten. The canal at this place is ten French feet ıt

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wide and twelve high, hewn entirely out of the chalk rock, imbedded, in which are many flints—no masonry. There is only a small part sinished of ten toises long for a pattern, twenty feet broad, and twenty high. Five thousand toises are already done in the manner of that part which I viewed; and the whole distance under ground, when the tunnel will be complete, is seven thousand and twenty toises (each fix feet) or about nine miles. It has already cost 1,200,000 livres (52,500l.) and there want 2,500,000 livres (409,375l.) to complete it; so that the total ellimate is near four millions. It is executed by shafts. At present there are not above five or fix inches of water in it. This great work has shood still entirely since the administration of the Archbishop of Toulouze. When we see such works stand still for want of money, we shall reasonably be inclined to ask, what are the services that continue supplied? and to conclude, that amongst kings, and ministers, and nations, economy is the sirst virtue:—without it, genius in the meteor; victory a found; and all courtly splendour a public robbery.

At Cambray, view the manufacture. These frontier towns of Flanders are built in the old style, but the streets broad, handsome, well paved, and lighted. I need not observe, that all are fortised, and that every step in this country has been rendered famous or infamous according to the feelings of the spectator, by many of the bloodiest wars that have disgraced and exhausted christendom. At the hotel de Bourbon I was well lodged, fed, and attended: an excellent inn.—22 miles.

The 2d. Pass Bouchaine to Valenciennes, another old town, which, like the rest of the Flemish ones, manifests more the wealth of former than of present times.—— 8 miles.

The 3d, to Orchees; and the 4th to Lifle, which is furrounded by more windmills for fqueezing out the oil of colefeed, than are probably to be feen any where elfe in the world. Pass fewer drawbridges and works of fortification here than at Calais; the great strength of this place is in its mines and other souteraines. In the evening to the play

The cry here for a war with England amazed me. Every one I talked with faid, it was beyond a doubt the English had called the Prussian army into Holland; and that the motives in France for a war were numerous and manifest. It is easy enough to discover, that the origin of all this violence is the commercial treaty, which is exectated here, as the most fatal stroke to their manusactures they ever experienced. These people have the true monopolizing ideas; they would involve four-and-twenty millions of people in the certain miseries of a war, rather than see the interest of those who consume fabrics, preferred to the interest of those who make them. The advantages reaped by four-and-twenty millions of consumers are supposed to be lighter than a feather, compared with the inconveniences sustained by half a million of manusacturers. Meet many small carts in the towe, drawn each by a dog: I was told by the owner of one, what appears to me incredible, that his dog would draw 700lb. half a league. The wheels of these carts are very high, relative to the height of the dog, so that his chest is a good deal below the axle.

The 6th. In leaving Lifle, the reparation of a bridge made me take a road on the banks of the canal, close under the works of the citadel. They appear to be very numerous, and the fituation exceedingly advantageous, on a gently rifing ground, furrounded by low watery meadows, which may with eafe be drowned. Pafs Darmentiers, a large paved town. Sleep at Mont Cassel.——30 miles.

The 7th. Cassel is on the summit of the only hill in Flauders. They are now repairing the bason at Dunkirk, so famous in history for an imperiousness in England, vol. 1v.

which she must have paid dearly for. Dunkirk, Gibraltar, and the statue of Louis XIV. in the Place de Victoire, I place in the fame political class of national arrogance. Many men are now at work on this bason, and, when finished, it will not contain more than twenty or twenty-five frigates; and appears, to an unlearned eye, a rid/culous object for the jealoufy of a great nation, unless it professed to be jealous of privateers.—I made enquiries concerning the import of wool from England, and was affured that it was a very trifling object. I may here observe, that when I left the town, my little cloak-bag was examined as fcrupulously as if I had just left England with a cargo of prohibited goods, and again at a fort two miles off. Dunkirk being a free port, the custom-house is at the gates. What are we to think of our woollen manufacturers in England, when fuing for their wool-bill, of infamous memory, they brought one Thomas Wilkinson from Dunkirk quay, to the bar of the English House of Lords to fwear, that wool passes from Dunkirk without entry, duty, or any thing being required, at double custom-houses, for a check on each other, where they examine even a cloak-bag? On fuch evidence, did our legislature, in the true thop-keeping spirit, pass an act of fines, pains, and penalties against all the wool growers of England. Walk to Rossendal near the town, where Mons. le Brun has an improvement on the Dunes, which he very obligingly shewed me. Between the town and that place is a great number of neat little houses, built each with its garden, and one or two fields enclosed of most wretched blowing Dune sand, naturally as white as fnow, but improved by industry. The magic of property turns fand to gold.— 18 miles.

The 8th. Leave Dunkirk, where the Concierge a good inn, as indeed I have found all in Flanders. Pass Gravelline, which, to my unlearned eyes, seems the strongest place I have yet feen, at least the works above ground are more numerous than at any other. Ditches, ramparts, and drawbridges without end. This is a part of the art military I like: it implies defence. If Gengifchan or Tamerlane had met with fuch places as Gravelline or Lifle in their way, where would their conquests and extirpations of the human race have been?—Reach Calais. And here ends a journey which has given me a great deal of pleasure, and more information than I should have expected in a kingdom not fo well cultivated as our own. It has been the first of my foreign travels; and has with me confirmed the idea, that to know our own country well, we must see something of others. Nations figure by comparison; and those ought to be esteemed the benefactors of the human race, who have most established public prosperity on the basis of private happiness. To ascertain how far this has been the case with the French, has been one material object of my tour. It is an enquiry of great and complex range; but a fingle excursion is too little to trust to. I must come again and again before I venture conclusions.——25 miles.

Wait at Desseins three days for a wind (the Duke and Duchess of Gloucester are in the same inn and situation) and for a pacquet. A captain behaved shabbily: deceived me, and was hired by a family that would admit nobody but themselves:

—I did not ask what nation this family was of.—Dover—London—Bradsield;—and have more pleasure in giving my little girl a French doll, than in viewing Ver-

failles.

1788.

THE long journey I had last year taken in France suggested a variety of restections on the agriculture, and on the sources and progress of national prosperity in that king-dom;

dom; in spite of myself, these ideas fermented in my mind; and while I was drawing conclusions relative to the political state of that great country, in every circumstance connected with its husbandry, I found, at each moment of my resection, the importance of making as regular a survey of the whole as was possible for a traveller to effect. Thus instigated, I determined to attempt finishing what I had fortunately enough begun.

July 30. Left Bradfield; and arived at Calais. ---- 161 miles.

August 5. The next day I took the road to St. Omers. Pass the bridge Sans Pareil, which serves a double purpose, passing two streams at once; but it has been praised beyond its merit, and cost more than it was worth. St. Omers contains little deserving notice; and, if I could direct the legislatures of England and Ireland, should contain still less:—why are catholics to emigrate in order to be ill educated abroad, instead of being allowed institutions that would educate them well at home? The country is seen to advantage from St. Bertin's steeple.—25 miles.

The 7th. The canal of St. Omers is carried up a hill by a feries of fluices. To Aire, and Lilliers, and Bethune, towns well known in military story.——25 miles.

The 8th. The country changes, now a champaign; from Bethune to Arras an admirable gravel road. At the last town there is nothing but the great and rich abbey of Var, and this they would not shew me—it was not the right day—or some frivolous excuse. The cathedral is nothing.—17½ miles.

The 9th. Market-day; coming out of the town I met at least an hundred asses, some loaded with a bag, others a sack, but all apparently with a trissing burthen, and such of men and women. This is called a market, being plentifully supplied; but a market proportion of all the labour of a country is idle in the midst of harvest, to start a town which in England would be fed by 3 of the people: whenever this swarm of trissers buz in a market, I take a minute and vicious division of the soil for granted. Here my only companion de wyage, the English mare that carries me, disclose by her eye a secret not the most agreeable, that she is going rapidly blind. She is moon-eyed; but our fool of a Bury farrier assured me I was safe for above a twelve-month. It must be confessed this is one of those agreeable situations which not many will believe a man would put himself into. Ma foy! this is a piece of my good luck;—the journey at best is but a drudgery, that others are paid for perforning on a good horse, and I myself pay for doing it on a blind one;—I shall feel this inconvenience perhaps at the expence of my neck.—20 miles.

The 10th. To Amiens. Mr. Fox slept here last night, and it was amusing to hear the conversation at the table d'hôte; they wondered that so great a man should not travel in a greater stile:—I asked what was his stile? Monsieur and Madame were in an English post-chaise, and the fille and valet de chamber in a cabriolet, with a French courier to have horses ready. What would they have? but a stile both of comfort and amusement? A plague on a blind mare!—But I have worked through life; and he talks.

The 11th. By Poix to Aumale; enter Normandy. ____25 miles.

The 12th. Thence to Newchatel, by far the finest country since Calais. Pass many villas of Rouen merchants.——40 miles.

The 13th. They are right to have country villas—to get out of this great ugly, flinking, close, and ill built town, which is full of nothing but dirt and industry. What a picture of new buildings does a flourishing and manufacturing town in England exhibit! The choir of the cathedral is surrounded by a most magnificent raising of solid brass. They shew the monument of Rollo, the first Duke of Normandy, and

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eflections hat kingdom; of his for; of William Longfword; also those of Richard Cœur de Lion; his brother Henry; the Duke of Bedford, regent of France; of their own King Henry V.; of the Cardinal d'Amboife, minister of Louis XII. The altar-piece is an adoration of the shepherds, by Philip of Champagne. Rouen is dearer than Paris, and therefore it is necessary for the pockets of the people that their bellies should be wholesomely pinched. At the table d'hôte, at the hotel pomme du pin we fat down, fixteen, to the following dinner: a foup, about 3lb. of bouilli, one towl, one duck, a small fricassee of chicken, a roté of veal, of about 2lb. and two other small plates with sallad: the price 45 s. and 20%. more for a pint of wine; at an ordinary of 20d. a head in England there would be a piece of meat which would, literally speaking, outweigh this whole dinner! The ducks were fwept clean fo quickly, that I moved from table without half a dinner. Such tables d'hôtes are among the cheap things of France! Of all fombres and triftes meetings a French table d'hôte is foremost; for eight minutes a dead silence, and as to the politen is of addressing a conversation to a foreigner, he will look for it in vain. Not a fingle word has any where been faid to me unless to answer some question: Rouen not fingular in this. The parliament-house here is shut up, and its members exiled a month past to their country seats, because they would not register the edict for a new land-tax. I enquired much into the common fentiments of the people, and found that the King perfonally from having been here, is more popular than the Parliament, to whom they attribute the general dearness of every thing. Called on Monf. d'Ambournay, the author of a treatife on using madder green instead of dried, and had the pleafure of a long conversation with him on various farming topics, interesting to my enquiries.

The 14th. To Barentin, through abundance of apple and pear-trees, and a country better than the husbandry; to Yvcout richer, but miserable management.—21 miles.

The 15th. Country the fame to Bolbeck; their inclosures remind me of Ireland, the fence is a high broad parapet bank, very well planted with hedges and oak and beech trees. All the way from Rouen there is a feattering of country feats, which I am glad to fee; farm-houses and cottages every where, and the cotton manufacture in all. Continues the fame to Harseur. To Havre de Grace, the approach strongly marks avery flourishing place: the hills are almost covered with little new built villas, and many more are building; some are so close as to form almost streets, and considerable additions are also making to the town.—30 miles.

The 16th. Enquiries are not necessary to find out the prosperity of this town; it is nothing equivocal: fuller of motion, life, and activity, than any place I have been at in France. A house here, which in 1779 let without any fine on a lease of six years for 240 livres per annum, was lately let for three years at 6c0 livres, which twelve years past was to be had at 24 livres. The harbour's mouth is narrow and formed by a mole, but it enlarges into two oblong basons of greater breadth; these are full of ships to the number of some hundreds, and the quays around are thronged with business, all hurry, bustle, and animation. They say a fifty gun ship can enter, but suppose without her guns. What is better, they have merchant-men of sive and six hundred tons: the state of the harbour has however given them much alarm and perplexity; if nothing had been done to improve it, the mouth would have been silled up with sand, an increasing evil; to remedy which, many engineers have been consulted. The want of a back water to washit out is so great, that they are now, at the King's expence, forming a most noble and magnificent work, a vast bason, walled off from the ocean, or rather an inclosure of it by solid masonry, seven hundred yards long, sive yards broad, and ten or twelve seet above the surface of the sea at high water; and for four hundred

yards more it confils of two exterior walls, each three yards broad, and filled up feven yards wide between them with earth; by means of this new and enormous bason, they will have an artificial back-water, capable, they calculate, of sweeping out the harbour's mouth clean from all obstructions. It is a work that does honour to the kingdom. The view of the Seine from this mole is striking; it is five miles broad, with high lands for its opposite shore; and the chalk cliffs and promontories, that recede to make way

for rolling its vast tribute to the ocean, bold and noble.

Wait on Mons. l'Abbé Dicquemarre, the celebrated naturalist, where I had also the pleasure of meeting Mademoiselle le Masson le Glost, author of some agreeable performances; among others, Entretien sur le Havre, 1781, when the number of souls was estimated at 25,000. The next day Mons le Reiseicourt, captain of the corps royale du Genie, to whom also I had letters, introduced me to Messrs. Hombergs, who are ranked among the most considerable merchants of France. I dined with them at one of their country-houses, meeting a numerous company and splendid entertainment. These gentlemen have wives and daughters, cousins and friends, cheerful, pleasing, and well informed. I did not like the idea of quitting them so foon, for they seemed to have a society that would have made a longer residence agreeable enough. It is no bad prejudice surely to like people that like England; most of them have been there.—Nous avons assure nation.—

Wasserbergie dans votre nation.—

The 18th. By the passage-packet, a decked vessel, to Honsleur, seven and a half miles, which we made with a strong north wind in an hour, the river being rougher than I thought a river could be. Honsleur is a small town, full of industry, and a bason full of ships, with some Guinea-men as large as at Havre. At Pont au de Mer, wait on Mons. Martin, director of the manufacture royale of leather. I saw eight or ten Englishmen that are employed here (there are forty in all), and conversed with one from Yorkshire, who told me he had been deceived in coming; for though they are well paid, yet they find things very dear, instead of very cheap, as they had been given

to understand.—20 miles.

The 19th. To Port l'Eveque, towards which town the country is richer, that is, has more pasturage; the whole has singular features, composed of orchard inclosures, with hedges so thick and excellent, though composed of willow, with but a sprinkling of thorns, that one can scarcely see through them: chateaus are scattered, and some good, yet the road is villainous. Pont l'Eveque is situated in the Pays d'Auge, celebrated for the great fertility of its pastures. To Lisieux, through the same rich district, sence admirably planted, and the country thick inclosed and wooded.—At the hotel d'Angleterre, an excellent inn, new, clean, and well furnished; and I was well ferved and well fed.—26 miles.

The 20th. To Caen; the road paties on the brow of a hill, that commands the rich valley of Corbon, still in the Pays d'Auge, the most fertile of the whole, all is under fine Poictu bullocks, which would figure in the counties of Leicester or Northampton.

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The 21st. The Marquis de Guerchy, whom I had had the pleasure of seeing in Susfolk, being colonel of the regiment of Artois, quartered here, I waited on him; he introduced me to his lady, and remarked, that as it was the fair of Guibray, and himself going thither, I could not do better than accompany him, since it was the second fair in France. I readily agreed; in our way, we called at Bon, and dined with the Marquis of Turgot, elder brother of the justly celebrated Comptroller general: this gentleman is author of some memoirs on planting, published in the Trimestres of the Royal Society

Society of Paris; he shewed and explained to us all his plantations, but chiefly prides himself on the exotics; and I was forry to find in proportion not to their promised utility, but merely to their rarity, I have not found this uncommon in France; and it is far from being fo in England. I wished every moment for a long walk to change the conversation from trees to husbandry, and made many efforts, but all in vain. In the evening to the fair play-house - Richard Cour de Lion; and I could not but remark an uncommon number of pretty women. Is there no antiquarian that deduces English beauty from the mixture of Norman blood? or who thinks with Major Jardine, that nothing improves fo much as croffing? to read his agreeable book of travels, one would think none wanted, and yet to look at his daughters, and hear their music, it would be impossible to doubt his system. Supped at the Marquis d'Ecougal's, at his chateau a la Frenaye. If these French Marquisses cannot show me good crops of corn and turnips, here is a noble one of fomething elfe—of beautiful and elegant daughters, the charming copies of an agreeable mother: the whole family I pronounced at the first fight amiable: they are chearful, pleafing, interesting: I want to know them better, but it is the fate of a traveller to meet opportunities of pleasure, and merely see to quit them. After supper, while the company were at cards, the Marquis conversed on topics interesting to my enquiries. - 224 miles.

The 22d. At this fair of Guibray, merchandize is fold, they fay, to the amount of fix millions (262,500l.) but at that of Beaucaire to ten: I found the quantity of English goods considerable, hard and queen's ware; cloths and cottons. A dozen of common plain plates, 3 livres, and 4 livres for a French imitation, but much worse; I asked the man (a Frenchman) if the treaty of commerce would not be very injurious with fuch a difference—C'est précisement le contraire Mons.—quelque mauvaise que soit cette imitation, on n'a encore rien fait d'aussi bien en France: l'année prochaine on fera mieux - nous perfectionnerons - et en fin nous l'emporterons sur vous-I believe he is a very good politician, and that, without competition, it is not possible to perfect any fabric. A dozen with blue or green edges, English, 5 livres 5s. Return to Caen; dine with the Marquis of Guerchy, Lieutenant colonel, Major, &c. of the regiment, and their wives prefent, a large and agreeable company. View the Abbey of Benedictines, fo inded by William the Conqueror. It is a tplendid building, fubitantial, maffy, and magnificent, with very large apartments, and from frair-cases worthy of a palace. Sup with Monf. du Mefni, captain of the corps de Genie, to whom I had letters; he had introduced me to the Engineer employed on the new port, which will bring ships of three or four hundred tons to Caen, a noble work, and among those which do honour

to France.

The 23d. Monf. de Guerchy and the Abbée de——, accompanied me to view Harcourt, the feat of the Duke d'Harcourt, governor of Normandy, and of the Dauphin; I had heard it called the finest English garden in France, but Ermenonville will not allow that claim, though not near its equal as a residence. Found at last a horse to try in order to prosecute my journey a little less like Don Quixotte, but it would by no means do; an uneasy stumbling beast, at a price that would have bought a good one; so my blind friend and I must jog on still urther.—30 miles.

The 24th. To Bayeux; the cathedral has three towers, one of which is very light.

elegant, and highly ornamented.

The 25th In the road to Carentan, pass an arm of the sea at Issigny, which is fordable. At Carentan I sound myself so ill, from accumulated colds I suppose, that I was seriously assaid of being laid up—not a bone without its aches; and a horrid dead teaden weight all over me. I went early to bed, washed down a dose of antimonial

powders, which proved fudorific enough to let me profecute my journey.——23 miles.

The 26. To Volognes; thence to Cherbourg, a thick woodland, much like Suffex. The Marquis de Guerchy had defired me to call on Monf. Doumerc, a great improver at Pierbutté near Cherbourg, which I did; but he was then at Paris: however his bailiff, Monf. Baillio, with great civility shewed me the lands, and explained every thing -

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The 27th. Cherbourg. I had letters to the Duke de Benvron, who commands here; to the Count de Chavagnac, and M. de Meufnier, of the Academy of Sciences, and translator of Cook's Voyages; the Count is in the country. So much had I heard of the famous works creeking to form a harbour here, that I was eager to view them without the lofs of a moment: the Duke favoured me with an order for that purpose; I therefore took a boat, and rowed across the artificial harbour formed by the celebrated coues. As it is possible that this itinerary may be read by persons that have not either time or inclination to feek other books for an account of these works, I will in a few words tketch the intention and execution. The French possess no port for ships of war from Dunkirk to Breft, and the former is capable of receiving frigates only. This deficiency has been fatal to them more than once in their wars with England, whose more favourable coast affords not only the Thames, but the noble harbour of Portsmouth. To remedy the want, they planned a mole across the open bay of Cherbourg; but to inclose a space sufficient to protect a fleet of the line, would demand so extended a wall, and fo exposed to heavy seas, that the expense would be far too great to be thought of; and at the fame time the fuccess too dubious to be ventured. The idea of a regular mol. was therefore given up, and a partial one on a new plan adopted; this was to erect in the fea, in a line where a mole is wanted, infulated columns of timber and mafonry, of fo vail a fize, as to refult the violence of the occan, and to break its waves fufficiently to permit a bank being formed between column and column. These have been called cones from their form. They are 140 feet diameter at the base; 60 diameter at the top, and 60 feet vertical height, being, when funk in the fea, 30 to 34 feet, immerfed at the low water of high tides. These enormous broad bottomed tubs being const ucted of oak, with every attention to strength and solidity, when finished for launching, were loaded with flone just sufficient for finking, and in that state each cone weighted 1000 tons (of 2000lb.) To float them, fixty empty casks, each of ten pipes, were attached around by cords, and in was state of buoyancy the enormous machine was floated to its defined fpot, towed by numberless vessels, and before innumerable fpectaces. At a fignal, the cords are cut in a moment, and the pile finks: it is then filled inflantly with from from veffels ready attending, and capped with majorry. The contents of each filled to within four feet of the furface only, 2500 cubical toiles of stone *. A vast number of vessels are then employed to form a bank of slone from cone to cone, vifible at low water in neap tides. Eighteen cones, by one account, but thirty-three by another, would complete the work, leaving only two entrances, commanded by two very fine new-built forts, Royale and d'Artois, thoroughly well provided, it is faid, (for they do not show them,) with an apparatus for heating canon balls. The number of cones will depend on the distances at which they are placed. I found eight fluished, and the skeleton frames of two more in the dock yard; but all is stopped by the Archbishop of Toulouze, in favour of the economical plans at prefent. in speculation. Four of them, the last funk, being most exposed, are now repairing,

[.] The toile fix feet.

having been found too weak to refift the fury of the florms, and the heavy westerly The last cone is much the most damaged, and, in proportion as they advance, they will be fill more and more exposed, which gives rife to the opinion of many skilful engineers, that the whole scheme will prove fruitless, unless such an expence is bestowed on the remaining cones as would be fufficient to exhault the revenues of a kingdom. The eight already erected have for fome years given a new appearance to Cherbourg; new houses, and even streets, and such a face of activity and animation, that the stop to the works was received with blank countenances. They fay, that, quarry-men included, three thousand were employed. The effect of the eight cones already erected, and the bank of stone formed between them, has been to give perfect fecurity to a confiderable portion of the intended harbour. Two forty gun lhips have lain at anchor within them these eighteen months pall, by way of experiment, and though such storms have happened in that time as have put all to fevere trials, and, as I mentioned before. confiderably damaged three of the cones, yet thefe ships have not received the smallest agitation; hence it is a harbour for a fmall fleet without doing more. Should they ever proceed with the rest of the cones, they must be built much stronger, perhaps larger, and far greater precautions taken in giving them firmnefs and folidity: it is alfo a queflion, whether they must not be sunk much nearer to each other; at all events, the proportionable expence will be nearly doubled; but for wars with England, the importance of having a fecure harbour, fo critically fituated, they confider as equal almost to any expence; at least this importance has its full weight in the eyes of the people of Cherbourg. I remarked, in rowing acrofs the harbour, that while the fea without the artificial bar was fo rough, that it would have been unpleafant for a boat, within it was quite smooth. I mounted two of the cones, one of which has this inscription :- Louis XVI. - Sur ce premiere cône èchou le 6 Juin 1784, a vu l'immersion de celui de l'est, le 23 Juin 1786. — On the whole, the undertaking is a prodigious one, and does no trifling credit to the spirit of enterprize of the present age in France. The service of the marine is a favourite; whether juftly or not, is another question; and this harbour shews, that when this great people undertake any capital works, that are really favourites, they find inventive genius to plan, and engineers of capital talents to execute whatever is devifed, in a manner that does honour to their kingdom. The Duke de Beuvron had afked me to dinner, but I found that if I accepted his invitation, it would then take me the next day to view the glass manufacture; I preferred therefore business to pleafure, and taking with me a letter from that nobleman to fecure a fight of it, I rode thither in the afternoon; it is about three miles from Cherbourg. Monf. de Puye, the director, explained every thing to me in the most obliging manner. Cherbourg is not a place for a refidence longer than necessary; I was here sleeced more infamously than at any other town in France; the two best inns were full; I was obliged to go to the barque, a vile hole, little better than a hog-fly; where, for a miferable dirty wretched chamber, two suppers composed chiesly of a plate of apples and some butter and cheefe, with fome trifle befides too bad to cat, and one miferable dinner, they brought me in a bill of 31 livres, (11. 7s. 1d.); they not only charged the room 3 livres a night, but even the very flable for my horfe, after enormous items for oats, hay, and fraw. This is a species of profligacy which debases the national character. Calling, as I returned, on Monf. Baillo, I shewed him the bill, at which he exclaimed for impofition, and faid the man and woman were going to leave off their trade; and no wonder, if they had made a practice of fleecing others in that manner. Let no one go to Cherbeing without making a bargain for every thing he has, even to the fliaw and flable; pepper, fait, and table-cloth. ---- 1c miles. The Ty

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The 28th, return to Carentan; and the 29th, pass through a rich and thickly inclosed country to Coutances, capital of the district called the Cotentin. They build in this country the best mud houses and barns I ever saw, excellent habitations, even of three stories, and all of mud, with considerable barns and other offices. The earth (the best for the purpose is a rich brown loam) is well kneaded with straw; and being spread about four inches thick on the ground, is cut in squares of nine inches, and these are taken with a shovel, and tossed to the man on the vall who builds it; and the wall built, as in Ireland, in layers, each three feet high, that it may dry before they advance. The thickness about two feet. They make them project about an inch, which they cut off layer by layer perfectly smooth. If they had the English way of white-washing, they would look as well as our lath and plaister, and are much more durable. In good houses the doors and windows are in stone work. ——20 miles.

The 3cth. A fine fea view of the Isles of Chausée, at five leagues distant; and afterwards Tersey, clear at about forty miles, with that of the town of Grandval on a high per infula; entering the town, every idea of beauty is lost; a close, nasty, ugly, ill-built hole; market day, and myriads of triflers, common at a French market. The bay of Cancalle, all along to the right, and St. Michael's rock rising out of the fea, conically, with a castle on the top, a most singular and picturesque object.——30 miles.

The 31st. At Pont Orsin, enter Bretagne; there seems here a more minute division of farms than before. There is a long street in the episcopal town of Doll, without a glass window; a horrid appearance. My entry into Bretagne gives me an idea of its being a miserable province.——22 miles.

S ptember ift. To Combourg, the country has a favage aspect; husbandry not much further advanced, at least in skill, than among the Hurons, which appears incredible amidst inclosures; the people almost as wild as their country, and their town of Combourg one of the most brutal filthy places that can be feen; mud houses, no windows, and a pavement to broken, as to impede all paffengers, but cafe none - yet here is a chateau, and inhabited; who is this Monsieur de Chateaubriant, the owner, that has nerves strung for a residence amidst such filth and poverty? Below this hideous heap of wretchedness is a fine lake, surrounded by well wooded inclosures. Coming out of Hedé there is a beautiful lake, belonging to Monsieur de Blassac, intendant of Poictiers, with a fine accompaniment of wood. A very little cleaning would make here a delicious feenery. There is a chateau, with four rows of trees, and nothing else to be feen from the windows in the true French style. Forbid it, taste, that this should be the house of the owner of that beautiful water; and yet this Monsieur de Blassac has made at Poictiers the finest promenade in France! But that taste which draws a strait line, and that which traces a waving one, are founded on feelings and ideas as separate and distinct as painting and music —as poetry or sculpture. The lake abounds with fifth, pike to 36lb. carp to 24lb. perch 4lb. and tench 5lb. To Rennes the fame strange wild mixture of desert and cultivation, half favage, half human. --31 miles.

The 2d. Rennes is well built, and has two good fquares; that particularly of Louis XV. where is his ftatue. The parliament being in exile, the house is not to be feen. The Benedictines' garden, called the Tabour, is worth viewing. But the object at Rennes most remarkable at present is a camp, with a marshal of France (de Stainville), and four regiments of infantry, and two of dragoons, close to the gates. The discontents of the people have been doubled, first on account of the high price of bread, and fecondly for the banishment of the parliament. The former cause is natural enough; vol. IV.

but why the people should love their parliament was what I could not understand. fince the members, as well as of the flates, are all noble, and the diffinction between the nobleffe and roturiers no where ftronger, more offensive, or more abominable than in Bretagne. They affured me, however, that the populace have been blown up to violence by every art of deception, and even by money diffributed for that purpofe. The commotions role to fuch a height before the camp was established, that the troops here were utterly unable to keep the peace. Monfieur Argentaife, to whom I had brought letters, had the goodness, during the four days I was here, to shew and explain every thing to be feen. I find Rennes very cheap; and it appears the more fo to me just come from Normandy, where every thing is extravagantly dear. The table d'hôte, at the grand maifon, is well ferved; they give two courfes, containing plenty of good things, and a very ample regular defert; the supper one good course. with a large joint of mutton, and another good defert; each meal, with the common wine, 40 fous, and for 20 more you have very good wine, intlead of the ordinary fort; 30 fous for the horse: thus, with good wine, it is no more than fix livres, 10 fous a day, or 5s. 10d. Yet a camp of which they complain has raifed prices enormoufly.

The 5th. To Montauban. The poor people feem poor indeed; the children terribly ragged, if possible worse clad than if with no cloaths at all; as to shoes and stockings they are luxuries. A beautiful girl of six or seven years, playing with a stick, and smiling under such a bundle of rags as made my heart ache to see her; they did not beg, and when I gave them any thing, secmed more surprized than obliged. One third of what I have seen of this province seems uncultivated, and nearly all of it in misery. What have kings, and ministers, and parliaments, and states to answer for, seeing millions of hands that would be industrious, yet idle and staving, through the execrable maxims of despotim, or the equally detestable prejudices of a feudal nobility? Sleep at the lion d'or, at Montauban, an abominable hole.

20 miles.

The 6th. The fame enclosed country to Brooms; but near that town improves to the eye, from being more hilly. At the little town of Lamballe, there are above fifty families of noblesse that live here in winter, who reside on their estates in the summer. There is probably as much soppery and nonsense in their circles, and for what I know as much happiness, as in those of Paris. Both would be better employed in cultivating their lands, and rendering the poor industrious.——30 miles.

The 7th. Upon leaving Lamballe, the country immediately changes. The Marquis d'Urvoy, whom I met at Rennes, and who has a good estate at St Brieux, gave me a

letter for his agent, who answered my questions. - 12 miles.

The 8th. To Guingamp, a fombre enclosed country. Pass Chateaulandrin, and enter Bas Bretagne. One recognizes at once another people, meeting numbers who have not more French than Je ne fai pas ce que vous dites, or Je n'entend rien. Enter Guingamp by gateways, towers, and battlements, apparently of the oldest military architecture; every part denoting antiquity, and in the best preservation. The poor people's habitations are not so good; they are miserable heaps of dirt; no glass, and scarcely any light; but they have earth chinmies. I was in my first sleep at Belleisse, when the aubergiste came to my bedside, undrew a curtain, that I expected to cover me with spiders, to tell me that I had une jument angloise superbe, and that a seigneur wished to buy it of me: I gave him half a dozen slowers of French cloquence for his impertinence, when he thought proper to leave me and his spiders at peace. There was a great chasse afternibled. These Bas Bretagne seigneurs are capital hunters, it

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feems, who fix on a blind mare for an object of admiration. A-propos to the breeds of horfes in France; this mare cost me twenty-three guineas when horfes were dear in England, and had been fold for fixteen when they were rather cheaper; her figure may therefore be guessed; yet she was much admired, and often in this journey; and as to Bretagne, she rarely met a rival. That province, and it is the same in parts of Normandy, is insested in every stable with a pack of garran poney stallions, sufficient to perpetuate the miserable breed that is every where seen. This villainous hole, that calls itself the grand maison, is the best inn at a post town on the great road to Brest, at which marshals of France, dukes, peers, countesses, and so forth, must now and then, by the accidents to which long journeys are subject, have found themselves. What are we to think of a country that has made, in the eighteenth century, no better provision for its travellers!— 30 miles.

The 9th. Morlaix is the most fingular port I have feen. It has but one feature, a vale just wide enough for a fine canal with two quays, and two rows of houses; behind them the mountain rises steep, and woody on one side; on the other gardens, rocks, and wood; the essection romantic and beautiful. Trade now very duil, but stourished much

in the war.—20 miles.

The 10th. Fair day at Landervisier, which gave me an opportunity of seeing numbers of Bas Bretons collected, as well as their cattle. The men dress in great trowser-like breeches, many with naked legs, and most with wooden shoes, strong marked seatures like the Welch, with countenances a mixture of half energy, half laziness; their persons shout, broad, and square. The women surrowed without age by labour, to the utter extinction of all softness of sex. The eye discovers them at first glance to be a people absolutely distinct from the French. Wonderful that they should be found so, with distinct language, manners, dress, &c. after having been settled here 1300 years.—35 miles.

The 11th. I had respectable letters, and to respectable people at Brest, in order to see the dock-yard, but they were vain; Monsieur le Chevalier de Tredairne particularly applied for me earnestly to the commandant, but the order, contrary to its being shewn either to Frenchmen or foreigners, was too strict to be relaxed without an express direction from the minister of the marine, given very rarely, and to which, when it does come, they pay but an unwilling obedience. Monsieur Tredairne, however, informed me, that Lord Pembroke saw it not long since by means of such an order: and he remarked himself, knowing that I could not fail doing the same, that it was strange to shew the port to an English general and governor of Portsmouth, yet deny it to a farmer. He however assured me, that the Duke of Chartres went away but the other day without being permitted to see it. Gretry's music at the theatre, which, though not large, is neat and elegant, was not calculated to put me in good humour; it was Panurge.—Brest is a well built town, with many regular and handsome streets, and the quay where many men of war are laid up, and other shipping, has much of that life and motion which animates a fea-port.

The 12th. Return to Landernau, where at the Duc de Chartres, which is the best and cleanest inn in the bishoprick, as I was going to dinner, the landlord told me, there was a Monsieur un homme comme it faut, and the dinner would be better if we united; de tout mon eveur. He proved a Bas Breton noble, with his sword and a little miserable but nimble nag. This seigneur was ignorant that the Duke de Chartres, the other day at Brett, was not the duke that was in Monsieur d'Orvillier's sleet. Take the road to Nantes.—25 miles.

The 13th. The country to Chateaulin more mountainous; one-third wafte. All this region far inferior to Leon and Traguer: no exertions, nor any marks of intelligence, yet all near to the great navigation and market of Brest water, and the foil good. Quimper, though a bishopric, has nothing worth seeing but its promenades, which are among the finest in France.——25 miles.

The 14th. Leaving Quimper, there feem to be more cultivated features; but this only for a moment; walles—walles—walles.—Reach Quimperlay.——27 miles.

The 15th. The fame fourbre country to l'Orient, but with a mixture of cultivation and much wood. - I found l'Orient so full of fools, gaping to see a man of war launched, that I could get no bed for myfelf, nor flable for my horfe at the epe royale. At the chevel blanc, a poor hole, I got my horse crammed among twenty others like herrings in a barrel, but could have no bed. The Duke de Briffac, with a fuite of officers, had no better fuccefs. If the governor of Paris could not, without trouble. get a bid at l'Orient, no wonder Arthur Young found obstacles. I went directly to . deliver my letters, found Monf. Befne, a merchant, at home; he received me with a frank civility better than a million of compliments; and the moment he understood my fituation, offered me a bed in his house, which I accepted. The Tourville, of eightyfour guns, was to be launched at three o'clock, but put off till the next day, much to the joy of the aubergiftes, &c. who were well pleafed to fee fuch a fwarm of strangers kept another day. I wished the ship in their throats, for I thought only of my poor mare being fqueezed a night among the Bretagne garrans; fixpence, however, to the garçon, had effects marvelloufly to her cafe. The town is modern, and regularly built, the streets diverge in rays from the gate, and are crossed by others at right angles, broad, handfomely built, and well paved; with many houses that make a good figure. But what makes l'Orient more known, is, being the appropriated port for the commerce of India, containing all the shipping and magazines of the company. The latter are truly great, and speak the royal munificence from which they arose. They are of feveral flories, and all vaulted in flone, in a splendid slile, and of vast extent. But they want, at least at prefent, like so many other magnificent establishments in France. the vigour and vivacity of an active commerce. The business transacting here feems trifling. Three eighty-four gun fhips, the Tourville, l'Eole, and Jean Bart, with a thirty-two gun frigate, are upon the flocks. They affured me, that the Tourville has been only nine months building: the feene is alive, and fifteen large men of war being laid up here in ordinary, with fome Indiamen and a few traders, render the port a pleafing spectacle. There is a beautiful round tower, a hundred feet high, of white flone, with a railed gallery at top; the proportions light and agreeable; it is for looking out and making fign ls. My hospitable merchant I find a plain unaffected character, with fome whimfical originalities, that make him more intereffing; he has an agreeable daughter, who entertains me with finging to her harp. The next morning the Tourville quitted her flocks, to the mufic of the regiments, and the flouts of thoufands collected to fee it. Leave | Orient. Arrive at Hennebon. - 7 ! miles.

The 17th. To Auray, the eighteen poorest miles I have yet seen in Bretagne. Good houses of stone and slate, without glass. Auray has a little port, and some sloops, which always give an air of life to a town. To Vannes, the country varied, but landes the more permanent feature. Vannes is not an inconsiderable town, but its greatest beauty is its port and promenade.

The 18th To Mufiliac. Belleifle with the fmaller ones, d'Herdic and d'Honat, are in fight. Mufiliac, if it can boalt of nothing elfe, may at least vaunt its cheapnels.

I had for dinner two good flat fish, a dish of oysters, soup, a fine duck roasted; with an ample defert of grapes, pears, walnuts, bifcuits, liqueur, and a pint of good Bourdeaux wine: my mare, befides hay, had three-fourths of a peck of corn, and the whole 50s. 2s. to the fille and two to the garçon, in all 2s. 6d. País landes-landes -landes - to la Roche Bernard. The view of the river Villaine is beautiful from the boldness of the shores; there are no insipid slats; the river is two-thirds of the width of the river Thames at Westminster, and would be equal to any thing in the world if the shores were woody, but they are the savage wastes of this country.——33

The 19th. Turned afide to Auvergnac, the feat of the Count de la Bourdonays, to whom I had a letter from the Duchefs d'Anville, as a perfon able to give me every fpecies of intelligence relative to Bretagne, having for five-and-twenty years been first fyndic of the nobletle. A fortuitous jumble of rocks and fteeps could fcarcely form a worse road than these sive miles: could I put as much faith in two bits of wood laid over each other, as the good folks of the country do, I should have crossed myself, but my blind friend, with the most incredible fure-footedness, carried me safe over fuch places, that if I had not been in the conflant habit of the faddle, I should have fluddered at, though guided by eyes keen as eclipfes; for I suppose a finer racer, on whose velocity so many fools have been ready to lose their money, must have good eyes, as well as good legs. Such a road, leading to feveral villages, and one of the first noblemen of the province, thews what the state of fociety must be; - -no communication—no neighbourhood—no temptation to the expenses which flow from fociety; a mere feclusion to fave money in order to spend it in towns. The Count received me with great politeness; I explained to him my plan and motives for travelling in France, which he was pleafed very warmly to approve, expeding his furprife that I flould attempt to large an undertaking, as fuch a furvey of France, unfupported by my government; I told him he knew very little of our government, if he supposed they would give a shilling to any agricultural project or projector; that whether the minister were whig or tory made no difference, the party of the plough never yet had one on its fide; and that England has had many Colberts, but not one Sully. This led to much interesting conversation on the balance of agriculture, manufactures, and commerce, and on the means of encouraging them; and, in reply to his enquiries, I made him understand their relations in England, and how our husbandry flourished in spite of our ministers, merely by the protection which civil liberty gives to property: and confequently that it was in a poor fituation, comparatively with what it would have been in, had it received the fame attention as manufactures and commerce. I told M. de la Bourdonaye that his province of Bretagne feemed to me to have nothing in it but privileges and poverty; he fmiled, and gave me fome explanations that are important; but no nobleman can ever probe this eval as it ought to be done, refulting as it does from the privileges going to themselves, and the poverty to the people. He fliewed me his plantations, which are very fine and well thriven, and flielter him thoroughly on every fide, even from the S.W. to near to the fea; from his walks we fee Belleifle and its neighbours, and a little ifle or rock belonging to him, which he fays the King of England took from him after Sir Edward Hawke's victory, but that his majetty was kind enough to leave him his ifland after one night's possession. 20

The 20th. Take my leave of Monfieur and Madame de la Bourdonaye, to whofe politeness as well as friendly attentions I am much obliged. Towards Nazaire there is a fine view of the mouth of the Loire, from the rifing grounds, but the headlands

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, are nefs. Lhad that form the embouchure are low, which takes off from that greatness of the effect which highlands give to the mouth of the Shannon. The fwelling bosom of the At-

lantic boundlefs to the right. Savanal is poverty itself. ______3 miles.

The 21st. Come to an improvement in the midst of these deferts, four good houses of flone and flate, and a few acres run to wretched grafs, which have been tilled, but all favage, and become almost as rough as the rest. I was afterwards informed that this improvement, as it is called, was wrought by Englishmen, at the expence of a gentleman they ruined as well as themselves.-I demanded how it had been done? Pare and burn, and fow wheat, then rye, and then oats. Thus it is for ever and ever! the fame follies, the fame blundering, the fame ignorance; and then all the fools in the country faid, as they do now, that these wastes are good for nothing. To my amazement find the incredible circumflance, that they reach within three miles of the great commercial city of Nantes! This is a problem and a lesson to work at, but not at prefent. Arrive—go to the theatre, new built of fine white flone, having a magnificent portico of eight elegant Corinthian pillars in front, and four others, to feparate the portico from a grand veltibule. Within all is gold and painting, and a coup d wil at entering, that flruck me forcibly. It is, I believe, twice as large as Drury-Lane, and five times as magnificent. It was Sunday, and therefore full. Mon Dicu! cried I to myfelf, do all the waltes, the deferts, the heath, ling, furz, broom, and bog, that I have passed for three hundred miles, lead to this spectacle? What a miracle, that all this fplendour and wealth of the cities in France should be so unconnected with the country! There are no gentle transitions from ease to comfort, from comfort to wealth: you pass at once from beggary to profusion, -- from misery in mud cabins to Mademoifelle St. Huberti in fplendid spectacles at 500 livres a night (21l. 17s. 6d.) The country deferted, or if a gentleman in it, you find him in fome wretched hole, to fave that money which is lavished with profusion in the luxuries of a capital.——20 miles.

The 22d. Deliver my letters. As much as agriculture is the chief object of my journey, it is necessary to acquire such intelligence of the state of commerce, as can be best done from merchants, for abundance of useful information is to be gained, without putting any questions that a man would be cautious of answering, and even without putting any questions at all. Monf. Riédy was very polite, and fatisfied many of my enquiries; I dined once with him, and was pleafed to find the converfation take an important turn on the relative fituations of France and Ingland in trade, particularly in the Weff-Indies. I had a letter also to Monf. Epivent, confilier in the parliament of Rennes, whose brother, Monf. Fpivent de la Villetboitnet, is a very confiderable merchant here. It was not possible for any person to be more obliging than thefe two gentlemen; their attentions to me were marked and friendly, and rendered a few days refidence here equally instructive and agreeable. The town has that fign of prosperity of new buildings, which never deceives. The quarter of the comedie is magnificent, all the fireets at right angles and of white flone. I am in doubt whether the hotel de Henri IV, is not the finell inn in Europe: Deficin's at Calais is larger, but neither built, titted up, nor farnished like this, which is new. It cost 400,000 livres. (17,50cl.) furnished, and is let at 14,000 livres per annum (012l. 10s.) with no rent for the first year. It contains fixty beas for masters, and twenty-five stalls for hortes. Some of the apartments of two rooms, very neat, are 6 livres a day; one good 3 livres, but for merchants 5 livres per diem for dinner, fupper, wine, and chamber, and 35s, for his horfe. It is, without comparison, the first inta I have seen in France, and very cheap. It is in a small square close to the theatre, as convenient for

pleasure or trade as the votaries of either can wish. The theatre cost 450,000 livres, and lets to the comedians at 17,000 livres a year; it holds, when full, to the value of 120 louis d'or. The land the inn flands on was bought at 9 livres a foot: in fome parts of the city it fells as high as 15 livres. The value of the ground induces them to build fo high as to be destructive of beauty. The quay has nothing remarkable; the river is choaked with illands, but at the furthoft part next to the fea is a large range of houses regularly fronted. An inflitution common in the great commercial towns of France, but particularly flourishing in Nantes, is a chambre de lecture, or what we should call a book club, that does not divide its books, but forms a library. There are three rooms, one for reading, another for convertation, and the third is the library; good fires in winter are provided, and wax candles. Meffrs. Epivent had the goodness to attend me on a water expedition, to view the establishment of Mr. Wilkinson, for boring cannon, in an island in the Loire below Nantes. Until that well known English manufacturer arrived, the French knew nothing of the art of calling cannon folid, and then boring them. Mr. Wilkinson's machinery, for boring four cannons, is now at work, moved by tide wheels; but they have creeted a steam engine, with a new apparatus for boring feven more; M. de la Motte, who has the direction of the whole, shewed us also a model of this engine, about fix feet long, five high, and four or five broad; which he worked for us, by making a finall fire under the boiler that is no bigger than a large tea-kettle; one of the bell machines for a travelling philosopher that I have feen. Names is as enflammed in the cause of liberty, as any town in France can be; the converfations I witnessed here prove how great a change is effected in the minds of the French, nor do I believe it will be peflible for the prefent government to last half a century longer, unless the clearest and most decided talents be at the helm. The American revolution has laid the foundation of another in France, if government do not take care of itfelf*. Upon the 23d one of the twelve prisoners from the Bastile arrived here—he was the most violent of them all—and his imprisonment has been far enough from filencing him.

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or caThe 25th. It was not without regret that I quitted a fociety both intelligent and agreeable, nor fhould I feel comfortably if I did not hope to fee Melirs. Epivents again; I have little chance of being at Nantes, but if they come a fecond time to England, I have a promife of feeing them at Bradfield. The younger of these gentlemen spent a fortnight with Lord Shelburne at Bowood, which he remembers with much pleasure; Col. Barré and Dr. Priestley were there at the same time. To Ancenis is all inclosed: for feven miles many seas.

The 20th. To the feene of the vintage I had not before been witness to so much advantage as here; last autumn the heavy rains made it a melancholy business. At prefent all is life and activity. The country all thickly and well inclosed. Glorious view of the Loire from a village, the last of Bretagne, where is a great barrier across the road and custom houses, to search every thing coming thence. The Loire here takes the appearance of a lake large enough to be interesting. There is on both sides an accompaniment of wood, which is not universal on this river. The addition of towns, steeples, windmills, and a great range of lovely conary, covered with vines; the character gay as well as noble. Enter Anjou. Pass St. George. For ten miles quit the Loire and meet it again at Angers. Letters from Monf. de Broussont; but he is unable to inform me in what part of Anjou was the residence of the Marquis de Tourbilly; to

[•] It wonted no great spirit of prophecy to forctel this; but the latter events have shewn that I was very wide of the mark when I talked of stry years,

find out that nobleman's farm, where he made those admirable improvements, which he describes in the Memoire sur les desrichemens, was such an object to me, I was determined to go to the place, let the distance out of my way be what it might.——30 miles.

The 27th. Among my letters, one to Monf. de la Livoniere, perpetual fecretary of the Society of Agriculture here. I found he was at his country feat, two leagues off at Magnianne. On my arrival, he was fitting down to dinner with his family; not being past twelve, I thought to have escaped this awkwardness; but both he himlest and Madame prevented all embarraffment by very unaffectedly defiring me to partake with them; and making not the least derangement either in table or looks, placed me at once at my eafe, to an indifferent dinner, garnished with so much chearfulness, that I found it a repail more to my tafte than the most splendid tables could afford. An Englift family in the country, fimilar in fituation, taken unawares in the fame way, would receive you with an unquiet hospitality, and an anxious politeness; and after waiting for a hurry-feurry derangement of cloth, table, plates, fideboard, pot, and fpit, would give you perhaps fo good a dinner, that none of the family, between anxiety and fatigue, could fupply one word of converfation, and you would depart under cordial wifnes that you might never return. This folly, to common in England, is never met with in France: the French are quiet in their houses, and do things without effort. - Monsieur I ivoniere converfed with me much on the plan of my travels, which he commended greatly, but thought it very extraordinary that neither government, nor the Academy of Sciences, nor the Academy of Agriculture, should at least be at the expence of my journey. This idea is purely French; they have no notion of private people going out of their way for the public good, without being paid by the public; nor could be well comprehend me, when I told him that every thing is well done in England, except what is done with public money. I was greatly concerned to find that he could give no intelligence concerning the refidence of the late Marquis de Tourbilly, as it would be a provoking circumilance to pass through all the province without finding his house, and afterward hear perhaps that I had been ignorantly within a few miles of it. In the evening return to Angers. _____20 miles.

The 28th. To La Flêche. The chateau of Duretal, belonging to the Duchefs d'Eftiffac, is holdly fituated above the little town of that name, and on the banks of a beautiful river, the flopes to which that hang to the fouth are covered with vines. The country chearful, dry, and pleafant for refidence. I enquired here of feveral gentlemen for the refidence of the Marquis de Tourbilly, but all in vain. The 30 niles to La Flêche the road is a noble one, of gravel, finooth, and kept in admirable order. La Flêche is a neat, clean, little town, not ill built, on the navigable river that flows to Duretal; but the trade is inconfiderable. My first business here, as every where else in Anjou, was to enquire for the refidence of the Marquis de Tourbilly. I repeated my enquiries till I found that there was a place not far from La Flêche, called Tourbilly, but not what I wanted, as there was no Monf. de Tourbilly there, but a Marquis de Galway, who inherited Tourbilly from his father. This perplexed me more and more; and I renewed my enquiries with fo much cagerness, that several people, I believe, thought me half mad. At last I met with an ancient lady who folved my difficulty; fhe informed me, that Tourbilly, about twelve miles from La Flêche, was the place I was in fearch of: that it belonged to the marquis of that name, who had written fome books fle believed; that he died twenty years ago infolvent; that the father of the prefent Marquis de Galway bought the chate. This was inflicient for my purpose; I determined to take a guide the next morning, and, as I could not vifit the marquis, at leaft fee the remains of his improvements. The news, however, that he died infolvent, hurt me very much; it was a bad commentary on his book, and I forefaw, that whoever I should find at Tourbilly, would be full of ridicule on a husbandry that proved the loss of

the estate on which it was practifed. _____30 miles.

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The 29th. This morning I executed my project; my guide was a countryman with a good pair of legs, who conducted me across a range of fuch ling wastes as the Marquis speaks of in his memoir. They appear boundless here; and I was told that I could travel many-many days, and fee nothing elfe: what fields of improvement to make, not to lose estates! At last we arrived at Tourbilly, a poor village, of a few scattered houses, in a vale between two rising grounds, which are yet heath and waste; the chateau in the midft, with plantations of fine poplars leading to it. I cannot eafily express the anxious inquifitive curiofity I felt to examine every fcrap of the estate; no hedge or tree, no bush but what was interesting to me: I had read the translation of the Marquis's history of his improvements in Mr. Mill's husbandry, and thought it the most interesting morfel I had met with, long before I procured the original Memoire fur les defrichemens; and determined, that if eve. I should go to France, to view improvements the recital of which had given me fo much pleasure. I had neither letter nor introduction to the prefent owner, the Marquis de Galway. I therefore stated to him the plain fact, that I had read Monf. de Tourbilly's book with fo much pleafure, that I wished much to view the improvements described in it; he answered me directly in good Englifh, received me with fuch cordiality of politeness, and fuch expressions of regard for the purport of my travels, that he put me perfectly in humour with myfelf, and confequently with all around me. He ordered breakfast a l'Anglois—gave orders for a man to attend us in our walk, who I defired might be the oldest labourer to be found of the late Marquis de Tourbilly's. I was pleafed to hear that one was alive who had worked with him from the beginning of his improvement. At breakfast Mons. de Galway introduced me to his brother, who also spoke English, and regretted that he could not do the fame to Madame de Galway, who was confined to her chamber: he then gave me an account of his father's acquiring the estate and chateau of Tourbilly. His great-grandfather came to Bretagne with King James II. when he fled from the English throne; fome of the same family are still living in the county of Cork, particularly at Lotta. His father was famous in that province for his skill in agriculture; and, as a reward for an improvement he had wrought on the landes, the flates of the province gave him a waste tract in the island of Belleisle, which at present belongs to his son. Hearing that the Marquis de Tourbilly was totally ruined, and his estates in Anjou to be fold by the creditors, he viewed them, and finding the land very improveable, made the purchase, giving about 15,000 louis d'ors for Tourbilly, a price which made the acquifition highly advantageous, notwithstanding his having bought some lawfuits with the estate. It is about three thousand arpents, nearly contiguous, the seigneury of two parishes, with the haute justice, &c. a handsome, large, and convenient chateau, offices very compleat, and many plantations, the work of the celebrated man concerning whom my enquiries were directed. I was almost breathless on the question of so great an improver being ruined! "You are unhappy that a man should be ruined by an art you love so much." Precifely fo. But he eafed me in a moment, by adding, that if the marquis had done nothing but farm and improve, he had never been ruined. One day, as he was boring to find marl, his ill stars discovered a vein of earth, perfectly white, which on trial did not effervesce with acids. It struck him as an acquisition for porcelain—he shewed it to a manufacturer-it was pronounced excellent: the marquis's imagination took fire, and he thought of converting the poor village of Tourbilly into a town, by a fabric of china VOL. IV.

-he went to work on his own account --raifed buildings-and got together all that was necessary, except skill and capital. In fine, he made good porcelain, was cheated by his agents, and people, and at last ruined. A foap manufactory, which he established alfo, as well as some law-fuits relative to other estates, had their share in causing his misfortunes: his creditors feized the effate, but permitted him to administer it till his death, when it was fold. The only part of the tale that lessened my regret was, that, though married, he left no family; so that his ashes will sleep in peace, without his memory being reviled by an indigent posterity. His ancestors acquired the estate by marriage in the fourteenth century. His agricultural improvements, Monf. Galway obferred, certainly did not hurt him; they were not well done, nor well supported by himself, but they rendered the estate more valuable; and he never heard that they had brought him into any difficulties. I cannot but observe here, that there seems a fatality to attend country gentlemen whenever they attempt trade or manufactures. In England I never knew a man of landed property, with the education and habits of landed proprietors, attempt either, but they were infallibly ruined; or, if not ruined, confiderably hurt by them. Whether it be that the ideas and principles of trade have fomething in them repugnant to the fentiments which ought to flow from education - or whether the habitual inattention of country gentlemen to finall gains and favings, which are the foul of trade, render their fuccess impossible; from whatever it may arise, the fact is, not one in a million fucceeds. Agriculture, in the improvement of their eslates, is the only proper and legitimate sphere of their industry; and though ignorance renders this fometimes dangerous, yet they can with fafety attempt no other. The old labourer, whose name is Piron (as propitious I hope to farming as to wit), being arrived, we fallied forth to tread what was to me a fort of claffic ground. I shall dwell but little on the particulars: they make a much better figure in the Menioire fur les defrichemens than at Tourbilly; the meadows, even near the chateau, are yet very rough; the general features are rough: but the alleys of poplars, of which he speaks in the memoirs, are nobly grown indeed, and do credit to his memory; they are fixty or feventy feet high, and in girt a foot: the willows are equal. Why were they not oak? to have transmitted to the farming travellers of another century the pleafure I feel in viewing the more perishable poplars of the present time—the causeways near the castle must have been arduous works. The mulberries are in a flate of neglect; Monf. Calway's father not being fond of that culture, destroyed many, but some hundreds remain, and I was told that the poor people had made as far as twenty-five pound of filk, but none attempted at prefent. The meadows had been drained and improved near the chateau to the amount of fifty or fixty arpents, they are now rufhy, but yet valuable in fuch a country. Near them is a wood of Bourdeaux pines, fown thirty-five years ago, and now worth five or fix livres each. I walked into the boggy bit that produced the great cabbages he mentioned, it joins a large and most improveable bottom. Piron informed me that the marguis pared and burnt about one hundred arpents in all, and folded two hundred and fifty sheep. On our return to the chateau, Monsieur de Galway, finding what an enthufialt I was in agriculture, fearched among his papers to find a manufcript of the Marquis de Tourbilly's, written with his own hand, which he had the goodness to make me a prefent of, and which I shall keep amongst my curiofities in agriculture. The poute reception I had met from Monf. Galway, and the friendly attention he had given to my views, entering into the spirit of my pursuit, and wishing to promote it, would have induced me very chearfully to have accepted his invitation of remaining fome days with him; had I not been apprehensive that the moment of Madame Galway's being in bed would render fuch an unlooked-for vifit inconvenient. I took

my seave therefore in the evening, and returned to La Flêche by a different road.

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The 30th. A quantity of Moors to Le Mans; they affured me at Guerces, that they are here fixty leagues in circumference, with no great interruptions. At Le Mans I was unlucky in Monf. Tournai, secretary to the Society of Agriculture, being absent.—
28 miles.

October 1. Towards Alençon, the country a contrast to what I passed yesterday; good land, well inclosed, well built, and tolerably cultivated, with marling. A noble road of dark coloured stone, apparently ferruginous, that binds well. Near Beaumon vine-yards in sight on the hills, and these are the last in thus travelling northwards; the whole country finely watered by rivers and streams, yet no irrigation.—30 miles.

The 2d. Four miles to Nouant, of rich herbage, under bullocks.——28 miles.

The 3d. From Gacé towards Bernay. Pass the Marechal Duc de Broglio's chateau at Broglio, which is surrounded by such a multiplicity of clipt hedges, double, treble, and quadruple, that he must half maintain the poor of the little town by clipping.——25 miles.

The 4th. Leave Bernay; where, and at other places in this country, are many mud walls, made of rich red loam, thatched at top, and well planted with fruit trees: a hint well worth copying in England, where brick and stone are dear. Come to one of the richest countries in France, or indeed in Europe. There are few siner views than the first of Elbeuf, from the eminence above it, which is high; the town at your feet in the bottom; on one side the Seine presents a noble reach, broken by wooded islands, and an immense amphitheatre of hill, covered with a prodigious wood, furrounding the

The 5th. To Rouen, where I found the hotel royal, a contrast to that dirty, impertinent, cheating hole the pomme de pin. In the evening to the theatre, which is not fo large I think as that of Nantes, but not comparable in elegance or decoration; it is fombre and dirty. Gretry's Caravanne de Caire, the mufic of which, though too much chorus and noife, has some tender and pleasing passages. I like it better than any other piece I have heard of that celebrated composer. The next morning waited on Monf. Scanegatty, professeur de physique dans la Societé Royale d'Agriculture; he received me with politeness. He has a confiderable room furnished with mathematical and philosophical instruments and models. He explained some of the latter to me that are of his own invention, particularly one of a furnace for calcining gypfum, which is brought here in large quantities from Montmartre. Waited on Messrs. Midy, Rosfec and Co. the most considerable wool merchants in France, who were so kind as to shew me a great variety of wools, from most of the European countries, and permitted me to take specimens. The next morning I went to Darnetel, where Monf. Curmer shewed me his manufacture. Return to Rouen, and dined with Monf. Portier, directeur general des fermes, to whom I had brought a letter from the Duc de la Rochefoucauld. The conversation turned, among other subjects, on the want of new streets at Rouen, on comparison with Havre, Nantes, and Bourdeaux; at the latter places it was remarked, that a merchant makes a fortune in ten or fifteen years, and builds; but at Rouen, it is a commerce of economy, in which a man does not grow rich fo foon, and therefore unable with prindence to make the fame exertions. Every person at table agreed in another point which was discussed, that the wine provinces are the poorest in all France: I urged the produce being greater per arpent by far than of other lands; they indified however on the fact as generally known and admitted. In the evening at the theatre, Madame du Freine entertained me greatly; the is an excellent actrefs, never over-does her date, and makes one feel by feeling herfelf. The more 1 fee of the French theatre, the more I am forced to acknowledge the superiority to our own, in the number of good performers, and in the sewness of bad ones; and in the quantity of dancers, sugers, and persons on whom the business of the theatre depends, all enablished on a great scale. I remark, in the sentiments that are applauded, the same generous feelings in the audience in France, that have many times in England put me in good humour with my countrymen. We are too apt to hate the French; for myself I see many reasons to be pleased with them; attributing faults very much to their government; perhaps in our own, our roughness and want of good temper are to be traced to the same origin.

The 8th. My plan had for fome time been to go directly to England, on leaving Rouen, for the poll-offices had been cruelly uncertain. I had received no letters for fome time from my family, though I had written repeatedly to urge it; they passed to a person at Paris who was to sorward them; but some carelesshiess, or other cause, impeded all, at a time that others, directed to the towns I passed, came regularly; I had fears that some of my family were ill, and that they would not write bad news to me in a fituation whe e knowing the worst could have no influence in changing it for better. But the defire I had to accept the invitation to La Roche Guyon, of the Duchel's d'Anville and the Duc de la Rochete wauld, prolonged my journey, and I fet torward on this further excursion. A truly noble view from the road above Rouen; the city at one end of the vale, with the river flowing to it perfectly chequered with ifles of wood. The other divides into two great channels, between which the vale is all fpread with islands, some arable, some meadow, and south wood on all. Pass Pont l'Arch to Louviers. I had letters for the celebrated manufacturer Monf. Decretot, who received me with a kindness that ought to have some better epithet than polite; he shewed me his fabric, unquestionably the first woollen one in the world, if success, beauty of fabric, and an inexhaultible invention to supply with taste all the cravings of fancy, can give the merit of fuch superiority. Perfection goes no further than the Vigonia Joths of Monf. Decreiot, at 110 livres (4l. 16s. 3d.) the aulne. He shewed me his cottonmills also, under the direction of two Englishmen. Near Louviers is a manufacture of copper-plates for the bottoms of the King's ships; a colony of Englishmen. I supped with Monf. Decretor, passing a very pleasant evening in the company of some agreeable ladies. 17 miles.

The 9th. By Gallion to Vernon; the vale flat rich arable. Among the notes I had long ago taken of objects to fee in France, was the plantation of mulberries, and the filk establishment of the Marechal de Belleisse, at Bissy, near Vernon; the attempts repeatedly made by the fociety for the encouragement of arts, at London, to introduce filk into England, had made the fimilar undertakings in the north of France more interesting. I accordingly made all the enquiries that were necessary for discovering the fuccess of this meritorious attempt. Biffy is a fine place, purchased on the death of the Duc de Beileisle by the Duc de Penthievre, who has but one amusement, which is that of varying his refidence at the numerous feats he possesses in many parts of the king-There is fomething rational in this tafte; I should like myself to have a score of farms from the vale of Valencia to the Highlands of Scotland, and to vifit and direct their cultivation by turns. From Vernon, crofs the Seine, and mount the chalk hills again; after which to La Roche Guyon, the most fingular place I have feen. Madaine d'Anville and the Duc de la Rochefoucauld received me in a manner that went have made me pleafed with the place had it been in the midft of a bog. It gave m to find also the Duchess de la Rochesoucuild here, with whom I had passed a such agreeable time at Bagnere de Luchon, a roughly good woman, with An eplicity

of caracter, which is too often banished by pride or family or foppery of rank. The Abbé Rochon, the celebrated astronomer, of the Academy of Sciences, with some other company, which, with the domestics and trappings of a Grand Seigneur, gave La Roche Guyon exactly the resemblance of the residence of a great Lord in England. Europe is now so much assimilated, that if one go to a house where the fortune is 15 or 20,000l. a-year, we shall find in the mode of living much more resemblance than a young tra-

veller will ever be prepared to look for. ____23 miles.

The 10th. This is one of the most fingular places I have been at. The chalk rock has been cut perpendicularly, to make room for the chateau. The kitchen, which is a large one, vast vaults, and extensive cellars (which, by the way, are magnificently filled,) with various other offices, are all cut out of the rock, with merely fronts of brick; the house is large, containing thirty-eight apartments. The present Duchess has added a handsome saloon of forty-eight feet long, and well proportioned, with four fine tablets of the Gobelin tapestry, also a library well filled. Here I was shewed the ink-stand that belonged to the famous Louvois, the minister of Louis XIV. known to be the identical one from which he figned the revocation of the edict of Nantes, and I suppose also the order to Turenne to burn the Palatinate. This Marquis de Louvois was grandfather to the two Duchesses d'Anville and d'Estissac, who inherited all his estate, as well as their own family fortune of the house of La Rochesoucauld, from which family I conceive, and not from Louvois, they inherited their dispositions. From the principal apartment there is a balcony that leads to the walks which ferpentine up the mountain. Like most French feats, there is a town, and a great potager to remove, before it would be consonant with English ideas. Bissy, the Duc de Penthievre's, is just the fame; before the chateau there is a gently falling vale with a little stream through it, that admits of the greatest improvements in respect to lawn and water, but in full front of the house they have placed a great kitchen-garden, with walls enough for a fortress. The houses of the poor people here, as on the Loire in Touraine, are burrowed into the chalk rock, and have a fingular appearance: here are two ftreets of them, one above another; they are afferted by fome to be wholefome, warm in winter, and cool in summer; but others thought they were bad for the health of the inhabitants. The Duc de la Rochefoucauld had the kindness to order his steward to give me all the information I wanted relative to the agriculture of the country, and to speak to fuch persons as were necessary on points that he was in doubt about. At an English nobleman's house, there would have been three or four farmers asked to meet me, who would have dined with the family among ladies of the first rank. I do not exaggerate, when I fay, that I have had this at least an hundred times in the first houses of our iflands. It is, however, a thing that, in the present state of manners in France, would not be met with from Calais to Bayonne, except by chance in the house of some great Lord that had been much in England*, and then not unless it were asked for. The nobility in France have no more idea of practifing agriculture, and making it an object of conversation, except on the mere theory, as they would speak of a loom or a bowsprit, than of any other object the most remote from their habits and pursuits. I do not fo much blame them for this neglect, as I do that herd of vifionary and abfurd wrb rs on agriculture, who, from their chambers in cities, have, with an impertinence almon incredible, deluged France with nonfenfe and theory, enough to difguft and ruin e whole nobility of the kingdom.

The 12th. Part with regret from a fociety I had every reason to be pleased with.——35 miles.

^{*} I once knew it at the Duc de Liancourt's.

The 13th. The twenty miles to Rouen, the fame features. First view of Rouen fudden and striking; but the road doubling, in order to turn more gently down the hill, prefents from an elbow the finest view of a town I have ever seen; the whole city, with all its churches and convents, and its cathedral proudly rifing in the midft, fills the vale. The river prefents one reach, croffed by the bridge, and then dividing into two fine channels, forms a large ifland covered with wood; the rest of the vale full of verdure and cultivation, of gardens and habitations, finish the scene, in perfect unison with the great city that forms the capital feature. Wait on Monf. d'Ambournay, fecretary of the Society of Agriculture, who was absent when I was here before; we had an interelling convertation on agriculture, and on the means of encouraging it. I found from this very ingenious gentleman, that his plan of using madder green, which many years ago had made fo much noise in the agricultural world, is not practifed at prefent any where; but he continues to think it perfectly practicable. In the evening to the play, where Madame Cretal, from Paris, acted Ning; and it proved the richest treat I have received from the French theatre. She performed it with an inimitable expression, with a tenderness, a naivete, and an elegance withal, that mattered every feeling of the heart, against which the piece was written: her expression is as delicious, as her countenance is beautiful; in her acting, nothing over-charged, but all kept within the fimplicity of nature. The house was crouded, garlands of slowers and laurel were thrown on the stage, and she was crowned by the other actors, but modestly removed them from her head, as often as they were placed there.——20 miles.

The 14th. Take the road to Dieppe. Meadows in the vale well watered, and hay

now making. Sleep at Tote. 171 miles.

The 15th. To Dieppe. I was lucky enough to find the passage-boat ready to fail; go on board with my faithful fure-footed blind friend. I shall probably never ride her again, but all my feelings prevent my felling her in France.-Without eyes she has carried me in fafety above 1500 miles; and for the rest of her life she shall have no other mafter than myfelf; could I afford it, this should be her last labour: some ploughing,

however, on my farm, the will perform for me, I dare fay, chearfully.

Landing at the neat new-built town of Brighthelmttone, offers a much greater contraft to Dieppe, which is old and dirty, than Dover does to Calais; and in the Caffle inn I feemed for a while to be in fairy land; but I paid for the enchantment. next day to Lord Sheffield's, a house I never go to, but to receive equal pleasure and instruction. I longed to make one for a short time in the evening library circle, but I took it strangely into my head, from one or two expressions, merely accidental in the conversation, coming after my want of letters to France, that I had certainly lost a child in my absence; and I hurried to London next morning, where I had the pleasure of finding my alarm a falfe one; letters enow had been written, but all failed. To Bradfield. --- 202 miles.

1789.

1N my two preceding journies, the whole western half of France had been crossed in various directions; and the information I had received, in making them, had made me as much a mafter of the general huibandry, the foil, management and productions, as could be expected, without penetrating in every corner, and refiding long in various flations; a method of furveying fuch a kingdom as France, that would demand feveral lives inflead of years. The eaftern part of the kingdom remained unexamined. The great mass of country, formed by the triangle, whose three points are Paris, Strasbourg and Moulins, and the mountainous region S. E. of the last town, presented in the map an ample space, which it would be necessary to pass before I could have such an idea of the kingdom as I wished to acquire; I determined to make this third effort, in order to accomplish a design which appeared more and more important, the more I reslected on it; and less likely to be executed by those whose powers are better adapted to the undertaking than mine. The meeting of the States General of France also, who were now assembled, made it the more needs sary to lose no time; for, in all human probability, that affembly will be the epoch of a new constitution, which will have new effects, and, for what I know, attended with a new agriculture; and to have the regal sun, in such a kingdom, both rise and set without the territory being known, must of necessity be regretted by every man folicitous for real political knowledge. The events of a century and half, including the brilliant reign of Louis XIV. will for ever render the sources of the French power interesting to mankind, and particularly that its state may be known previously to the establishment of an improved government, as the comparison of the essence of the old and new system will be not a little curious in future.

June 2. To London. At night, La Generosità d'Alessandro, by Tarchi, in which Signor Marchesi exerted his powers, and sung a duet, that made me for some moments forget all the sheep and pigs of Bradsield. I was, however, much better entertained after it, by supping at my friend Dr. Burney's, and meeting Miss Burney; how seldom is it that we can meet two characters at once in whom great celebrity deducts nothing from private amiablenes? How many dazzling ones that we have no desire to live with! give me such as to great talents add the qualities that make us wish to shut up

doors with them.

The 3d. Nothing buzzing in my ears but the fête given last night by the Spanish Ambassador. The best set of the present period is that which ten millions of people are giving to themselves,

The feast of reason and the flow of foul.

The animated feelings of bosoms beating with gratitude for the escape of one common calamity, and the thrilling hope of the continuance of common biestings. Meet at Mr. Songa's the Count de Berchtold, who has much good sense and many important views:——Why does not the Emperor call him to his own country, and make him a Minister? The world will never be well governed till princes know their subjects.

The 4th. To Dover in the machine, with two merchants from Stockholm, a German and a Swede; we shall be companions to Paris. I am more likely to learn something useful from the conversation of a Swede and a German, than from the chance

medley Englishmen of a stage-coach.——72 miles.

The 5th. Paffage to Calais; fourteen hours for reflection in a vehicle that does not

allow one power to reflect. ____2 t miles.

The 6th. A Frenchman and his wife, and a French teacher from Ireland, full of foppery and affectation, which her own nation did not give her the our company, with a young good-natured raw countryman of hers, at whom the played off many airs and graces. The man and his wife contrived to produce a pack of cards, to banish, they faid, *Penuye* of the journey; but they contrived also to fleece the young fellow of five louis. This is the first French diligence I have been in, and shall be the last; they are detestable. Sleep at & beeville.——78 miles.

The men and women, wirls and boys, think themselves (except the Swede) very cheartan because very noisy; they have stunned me-with singing; my ears have been

fo tormented with French airs, that I would almost as foon have rode the journey blindfold on an ass. This is what the French call good spirits; no truly chearful emotion in their bosoms; filent or singing; but for conversation they had none. I lose all patience in such company. Heaven send me a blind mare rather than another diligence! We were all this night, as well as all the day, on the road, and reached Paris

at nine in the morning -102 miles.

The 8th. To my friend Lazowski, to know where were the lodgings I had written him to hire me, but my good Duchefs d'11. and not allow him to execute my commission. I found an apartment in her hotel prepared for me. Paris is at present in fuch a ferment about the States General, now holding at Verfailles, that converfation is absolutely absorbed by them. Not a word of any thing else talked of. Every thing is confidered, and juffly fo, as important in fuch a crifis of the fate of four-and-twenty millions of people. It is now a terious contention whether the reprefentatives are to be called the Commons or the Tiers Etat; they call themselves steadily the former, while the Court and the great Lords reject the term with a species of apprehension, as if it involved a meaning not eafily to be fathomed. But this point is of little confequence compared with another, that has kept the flates for fome time in inactivity, the verification of their power feparately or in common. The nobility and the clergy demand the former, but the Commons steadily refuse it; the reason why a circumstance, apparently of no great confequence, is thus tenaciously regarded, is, that it may decide their fitting for the future in separate houses or in one. Those who are warm for the interest of the people declare that it will be impossible to reform some of the groffest abuses in the state, if the nobility, by sitting in a separate chamber, shall have a negative on the wifnes of the people: and that to give fuch a veto to the clergy would be flill more prepollerous; if therefore, by the verification of their powers in one chamber. they shall once come together, the popular party hope that there will remain no power afterwards to separate. The nobility a d clergy foresee the same result, and will not therefore agree to it. In this dilemma it is curious to remark the feelings of the moment. It is not my business to write memoirs of what passes, but I am intent to catch, as well as I can, the opinions of the day most prevalent. While I remain at Paris, I shall fee p-ople of all descriptions, from the coffee-house politicians to the leader's in the flates; and the chief object of such rapid notes as I throw on paper, will be to catch the ideas of the moment; to compare them afterwards with the actual events that shall happen, will afford amusement at least. The most prominent feature that appears at prefent is, that an idea of common interest and common danger does not feem to unite thofe, who, if not united, may find themselves too weak to oppose the danger that must arife from the people being fenfible of a throught the refult of their weakness. King, Court, Nobility, Clergy, Army, and Parliament, are nearly in the fame fituation. All these consider, with equal dread, the ideas of liberty, now assort; except the first, who, for reafons obvious to those who know his character, troubles himself little, even with circumstances that concern his power the most intimately. Among the rest, the feeling of danger is common, and they would unite were there a head to render it early, in order to do without the flates at all. That the Commons themselves look for some fuch hostile union as more than probable, appears from an id-a which gains ground, that they will find it necessary, should the other two ord secontinue to unite with them in one chamber, to declare themselves boldly the rear matrices of the kingdom at large, calling on the Nobility and Clergy to take their places - and to enter upon deliberations of business without them, should they refuse it. All conversation at present is on this topic, but opinions are more divided than I should have expected. There feem from a didinct chamber, they would venture on a new fyllem, dangerous as it might

prove.

The 9th. The business going forward at present in the pamphlet shops of Paris is incredible. I went to the Palais Royal to fee what new things were published, and o procure a catalogue of all. Every hour produces fomething new. Thirteen came out to day, fixteen yesterday, and ninety-two last week. We think sometimes that Debrett's or Stockdale's fliops at London are crowded, but they are mere deferts, compared to Defem's, and fome others here, in which one can fearcely fqueeze from the door to the counter. The price of printing two years ago was from 27 livres to 30 livres per fleet, but now it is from 60 livres to 80 livres. This spirit of reading political tracts, they lay, spreads into the provinces, so that all the prefies of France are equally employed. Nineteen-twentieths of these productions are in favour of liberty, and commonly violent against the clergy and nobitity; I have to day bespoken many of this deferip ion, that have reputation; but enquiring for fuch as had appeared on the other fide of the question, to my altonishment I find there are but two or three that have merit enough to be known. Is it not wonderful, that while the prefs teems with the most levelling and even feditious principles, which put in execution would overturn the monarchy, nothing in reply appears, and not the least step is taken by the court to reftrain this extreme licentiousness of publication? It is easy to conceive the spirit that must thus be raised among the people. But the coffee houses in the Palais Royal prefent yet more fingular and aftonishing spectacles; they are not only crowded within, but other expectant crowds are at the doors and windows, liftening a gorge deployee to certain orators, who from chairs or tables havangue each his little audience. the eagerness with which they are heard, and the thunder of applause they receive for every fentiment of more than common hardiness or violence against the present government, cannot eafily be imagined. I am all amazement at the ministry permitting fuch nefts and bot-beds of fedition and revolt, which differinate amongst the people, every hour, principles that by and by mult be opposed with vigour, and therefore it seems little short of madness to allow the propagation at present.

The 10th. Every thing confpires to render the present period in France critical; the want of bread is terrible: accounts arrive every moment from the provinces of riots and diffurbances, and calling in the military to preferve the peace of the markets. The prices reported are the fame as I found at Abbeville and Amiens, 5 fous (2 td.) a pound for white bread, and 31 lous to four lous for the common fortesten by the poor; thefe rates are beyond their faculties, and occasion great misery. At Meudon, the police, that is to fay the intendant, ordered that no wheat should be fold in the market without the person taking at the same time an equal quantity of barley. What a stupid and ridiculous regulation, to lay obstacles on the supply, in order to be better supplied; and to fliew the people the fears and apprehensions of government, creating thereby an alarm, and raifing the price at the very moment they wish to sink it! I have had some conversation on this topic with well-informed persons, who have assured me, that the price is, as usual, much higher than the proportion of the crop demanded, and there would have been no real fearcity if Mr. Necker would have let the corn-trade alone; but his edicts of refliction, which have been mere comments on his book on the legiflation of corn, have operated more to raife the price than all other causes together. It appears plain to me, that the violent friends of the commons are not displeased at the high price of corn, which accords their views greatly, and makes any appeal to the common feeling of the people more easy, and much more to their purpose than if the VOL. IV.

price were low. Three days past, the chamber of the clergy contrived a cunning priposition; it was to fend a deputation to the commons, proposing to name a commission from the three orders to take into consideration the misery of the people, and to deliberate on the means of lowering the price of bread. This would have led to the deliberation by order, and not by heads, consequently must be rejected, but unpopularly fo from the situation of the people; the commons were equally dextrous; in their reply, they prayed and conjured the clergy to join them in the common hall of the states to deliberate, which was no sooner reported at Paris, than the clergy became doubly an object of batted; and it became a question with the politicians of the Casté de Foy, whether it were not lawful for the commons to decree the application of the essential

the clergy towards eafing the diffress of the people.

The 11th. I have been in much company all day, and cannot but remark that there feem to be no fettled ideas of the best means of forming a new constitution. Yesterday the Abbé Syeyes made a motion in the house of commons, to declare boldly to the privileged orders, that if they will not join the commons, the latter will proceed in the national business without them; and the house decreed it with a small an endment. This causes much conversation on what will be the consequence of such a proceeding; and, on the contrary, on what may flow from the nobility and clergy continuing steadily to refuse to join the commons, and should they so proceed, to protest against all they decree, and appeal to the king to dissolve the states, and recal them in such a form as may be practicable for bufinels. In these most interesting discussions, I find a general ignorance of the principles of government; a strange and unaccountable appeal, on one fide, to ideal and visionary rights of nature; and on the other, no fettled plan that shall give fecurity to the people for being in future in a much better fituation than hitherto; a fecurity absolutely necessary. But the nobility, with the principles of great lords that I converse with, are most disgustingly tenacious of all old rights, however hard they may bear on the people; they will not hear of giving way in the leaft to the fpirit of liberty beyond the point of paying equal land-taxes, which they hold to be all that can with reason be demanded. The popular party, on the other hand, seem to consider all liberty as depending on the privileged classes being lost, and out-voted in the order of the commons, at least for making the new constitution; and when I urge the great probability, that should they once unite, there will remain no power of ever separating them; and that in such case, they will have a very questionable constitution, perhaps a very bad one; I am always told, that the first object must be for the people to get the power of doing good; and that it is no argument against such a conduct to urge that an ill use may be made of it. But among such men, the common idea is, that any thing tending towards a separate order, like our house of lords, is absolutely inconsistent with liberty; all which feems perfectly wild and unfounded.

The 12th. To the royal fociety of agriculture, which meets at the hotel de ville, and of which being an affocié, I voted, and received a jetton, which is a finall medal given to the members, every time they attend, in order to induce them to mind the bufiness of their institution; it is the same at all royal academies, &c. and amounts, in a year, to a considerable and ill-judged expence; for what good is to be expected from men who would go merely to receive their jetton? Whatever the motive may be, it seems well attended; near thirty were present; among them Parmentier, vice-president, Cadet de Vaux, Fourcroy, Tillet, Desmarets, Broussonet, screenary, and Creté de Palieul, at whose same I was two years ago, and who is the only practical farmer in the society. The secretary reads the titles of the papers presented, and gives some little acount of them; but they are not read, unless particularly interesting; then memoirs

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are read by the members, or reports of references; and when they diffcufs or debate, there is no order, but all fpeak together, as in a warm private conversation. The Abbé Raynal has given them 1200 livres, (52l. 10s.) for a premium on fome important fubject; and my opinion was alked what it should be given for. Give it, I replied, in some way for the introduction of turnips. But that they conceive to be an object of impossible attainment; they have done to much, and the government to much more, and all in vain, that they confider it as a hopeless object. I did not tell them that all hitherto done has been absolute folly; and that the right way to begin, was to undo every thing done. I am never prefent at any focieties of agriculture, either in France or England, but I am much in doubt with myfelf whether, when best conducted, they do most good or mischies; that is, whether the benefits a national agriculture may by great chance owe to them, are not more than counterbalanced by the harm they effect, by turning the public attention to frivolous objects, inflead of important ones, or drefling important ones in fuch a garb as to make them trifles? The only fociety that could be really useful would be that which, in the culture of a large farm, should exhibit a perfect example of good hufbandry, for the use of fuch as would refort to it; configuratly one that fliguid confit folely of practical men; and then query whether

many good cocks would not spoil a good dish.

The ideas of the public on the great bufiness going on at Verfailles change daily and even hourly. It now feems the opinion, that the commons, in their late violent vote, have gone too far; and that the union of the nobility, clergy, army, parliament, and King, will be by far too powerful for them; fuch an union is faid to be in agitation; and that the Count d'Artois, the Queen, and the party usually known by her name, are taking steps to essent it, against the moment when the proceedings of the commons shall make it necessary to act with unity and vigour. The abolition of the parliament is a topic of common convertation among the popular leaders, as a step estentially neceffary; because, while they exist, they are tribunals to which the court can have refort, should they be inclined to take any step against the existence of the states: those bodies are alarmed, and fee with deep regret, that their refusal to register the royal edicts, has created a power in the nation not only hosfile, but dangerous to the existence. It is now very well known, and understood on all hands, that show the shows that the shows the shows that the shows that the shows that the shows the sh King get rid of the states, and govern on any tolerable principles, his edicts wanted enregistered by all the parliaments. In the dilemma and apprehension of the many and the people look very much to the Duc d'Orleans as to a head; but with palparts and general ideas of diffrust and want of confidence; they regret his character, and that they cannot depend on him in any fevere and difficult trial; they conce be without steadiness, and that his greatest apprehension is to be exiled from ... p ... tures of Paris, and tell of many littlenelles he practifed before to be recalled from banishment. They are, however, fo totally without a head, that they are contented to look to him as one; and are highly pleafed with what is every moment reported, that he is determined to go at the head of a party of the nobility, and verify their powers in common with the commons. All agree, that had he firmness, in addition to his vast revenue of feven millions a-year (306,250l.), and four more (175,000l.) in reversion. after the death of his father-in-law, the Duc de Penthievre, he might, at the head of the popular cause, do any thing.

The 13th. In the morning to the king's library, which I had not feen when before at Paris; it is a vast apartment, and as all the world knows, nobly filled. Every thing is provided to accommodate those who wish to read or transcribe-of whom there were fixty or feventy prefent. Along the middle of the rooms are glass cases, containing mo-

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dels of the inflruments of many trades preferved for the benefit of pofterity, being made on the moft exact feale of proportion; among others the potter's, founder's, brickmaker's, chymift's, &c. &c. and lately added a very large one of the English garden, most miserably imagined; but with all this not a plough, or an iota of agriculture; yet a farm might be much easier represented than the garden they have attempted, and with infinitely more use. I have no doubt but there may arise many cases, in which the preservation of instruments, unaltered, may be of considerable utility; I think I see clearly, that such a use would result in agriculture, and, if so, why not in other arts? These cases of models, however, have so much the air of children's play-houses, that I would not answer for my little girl, it I had her here, not crying for them. At the Duchess d'Anville's, where meet the Archbishop of Aix, Bishop of Blois, Prince de Laon, and Duc and Duchess de la Rochesoucauld, the three last of my old Bagnere de Luchon acquaintance, Lord and Lady Camelford, Lord Eyre, &c. &c.

All this day I hear nothing but anxiety of expectation for what the crifis in the flate will produce. The embarrailment of the moment is extreme. Every one agrees that there is no ministry: the Queen is closely connecting herfelf with the party of the princes, with the Count d'Artois at their head; who are all fo adverse to Monf. Necker, that every thing is in confusion: but the King, who is personally the honestest man in the world, has but one wish, which is to do right; yet, being without those decifive parts that enable a man to forefee difficulties and to avoid them, finds himfelf in a moment of fuch extreme perplexity, that he knows not what council to take refuge in: it is faid that Monf. Necker is alarmed for his power, and anecdote reports things to his difadvantage, which probably are not true: - of his trimming-and attempting to connect himfelf with the Abbé de Vermont, reader to the Queen, who has great influence in all affairs in which he chuses to intertere; this is hardly credible, as that party are known to be exceedingly adverse to Mons. Necker; and it is even faid that, as the Count d'Artois, Madame de Polignac, and a few others were, but two days ago, walking in the private garden of Verfailles, they met Madame Necker, and descended even to histing her: if half this be true, it is plain enough that this minister must speedily retire. All who adhere to the antient constitution, or rather government, confider him as their mortal enemy; they affert, and truly, that he came in under circumflances that would have enabled him to do every thing he pleafed - he had King and kingdom at command - but that the errors he was guilty of, for want of fome fettled plan, have been the cause of all the dilemmas experienced fince. They accufe him heavily of affembling the notables, as a falfe ftep that did nothing but mifchief: and affert that his letting the King go to the !tates-general, before their powers were verified, and the neceffary fleps taken to keep the orders feparate, after giving double the reprefentation to the tiers to that of the other two orders, was madnefs; and that he ought to have appointed commissaries to have received the verisication before admittance. They accuse him further of having done all this through an exceffive and infufferable vanity, which gave him the idea of guiding the deliberation of the flates by his knowledge and reputation. It is expressly afferted, however, by M. Neck 2's most intimate friends, that he has acted with good faith, and that he has been in principle a friend to the regal power, as well as to an amelioration of the condition of the people. The word thing I know of him is his speech to the states on their affembling, - a great opportunity, but loft, - no leading or mafferly views, - no decifion on circumfiances in which the people ought to be relieved, and new principles of government adopted; - it is the speech you would expect from a bank r's

clerk of fome ability. Concerning it there is an anecdote worth inferting; he knew his voice would not enable him to go through the whole of it, in fo large a room, and to fo numerous an affembly; and therefore he had fpoken to Monf. de Brouffonet, of the Academy of Sciences, and fecretary to the Royal Society of Agriculture, to be in readiness to read it for him. He had been present at an annual general meeting of that fociety, when Monf. de Brouffonet had read a difcourfe with a powerful piercing voice, that was heard diffinctly to the greatest distance. This gentleman attended him feveral times to take his inttructions, and to be fure of underlanding the interlineations that were made, even after the speech was finished. Monf. de Broussonet was with him the evening before the affembly of the flates, at nine o'clock: and next day, when he came to read it in public, he found fill more corrections and alterations, which Monf. Necker had made after quitting him; they were chiefly in flile, and for wed how very folicitous he was in regard to the form and decoration of his matter:: the ideas in my opinion wanted this attention more than the flile. Monf. de Brouftonet himfelf told me this little anecdote. This morning in the flates three curees of Poiton have joined themselves to the commons, for the verification of their powers, and were received with a kind of madness of applause; and this evening at Paris nothing elfe is talked of. The nobles have been all day in debate, without coming to any conclution, and have adjourned to Monday.

The 14th. To the King's garden, where Monf Thouin had the goodness to shew me some small experiments he has made on plants that promise greatly for the farmer, particularly the lathyrds biennis*, and the melilotus syberica*, which now make an immede figure for forage; both are biennial; but will last three or four years if not feeded; the Ach'l'wa syberica and an astragalus appear good; he has promised me feeds. The Chinete hemp has perfected its feeds, which it had not done before in France. The more I see of Monf. Thouin the better I like him; he is one of the most amiable men I know.

To the repository of the royal machines, which Mons. Vandermond shewed and explained to me, with great readiness a d politeness. What struck me most was Mons. Vaucusson's machine for making a chain, which I was told Mr. Watt of Birmingham admired very much, at which my attendants seemed not displeased. Another for making the cogs indented in iron wheels. There is a chaff cutter, from an English original; and a model of the nontensical plough to go without horses; these are the only ones in agriculture. Many of very ingenious contrivances for winding silk, &c. In the evening to the theatre François, the Siege of Calais, by Mons. de Belloy, not a good, but a popular performance.

It is now decided by the popular leaders, that they will move to-morrow to declare all taxes illegal not raifed by authority of the flates general, and to grant them for a term only, either for two years, or for the duration of the prefent fellion of the flates. This plan is highly approved at Paris by all friends of liberty; and it is certainly a rational mode of proceeding, founded on just principles, and will involve the court in a great dilemma.

The 15th. This has been a rich day, and fuch an one as ten years ago none could believe would ever arrive in France; a very important debate being expected on what, in our house of commons, would be termed the slate of the nation, my friend Mons. Lazowski and myself were at Versailles by eight in the morning. We went immediately to the hall of the slates to secure good feats in the gallery; we found some de-

[•] I have cultivated these plants in finall quantities, and believe them to be a very important object.

puties already there, and a pretty numerous audience collected. The room is too large; none but Stentorian lungs, or the finest clearest voices can be heard; hewever the very fize of the apartment, which admits two thousand people, gave a dignity to the scene. It was indeed an interesting one. The spectacle of the representatives of twenty-five millions of people, just emerging from the evils of two hundred years of arbitrary power, and rifing to the bleflings of a freer conflitution, affembled with open doors under the eye of the public, was framed to call into animated feelings every latent frark, every emotion of a liberal bosom; to banish whatever ideas might intrude of their being a people too often hollile to my own country,—and to dwell with pleafure on the glorious idea of happiness to a great nation—of felicity to millions vet unborn. Monf. l'Abbé Syeves opened the debate. He is one of the most zealous flicklers for the popular cause; carries his ideas not to a regulation of the present government, which he thinks too bad to be regulated at all, but wishes to see it absolutely overturned, being in fact a violent republican: this is the character he commonly bears, and in his pamphlets he feems pretty much to justify fuch an idea. He fpeaks ungracefully, and uneloquently, but logically, or rather reads to, for he read his fpeech, which was prepared. His motion was to declare the affembly the reprefentatives known and verified of the French nation, admitting the right of all abfeut deputies (the nobility and clergy) to be received among them on the verification of their powers. Monf. de Mirabeau fpoke without notes, for near an hour, with a warmth, animation, and eloquence, that entitles him to the reputation of an undoubted orator. He opposed the words known and verified, in the proposition of the Abbé Syeyes, with great force of reasoning; and proposed, in lieu, that they should declare themfelves fimply Representatives du peuple François: that no veto should exist against their refolves in any other affembly: that all taxes are illegal, but flould be granted during the prefent fession of the states, and no longer: that the debt of the king should become the debt of the nation, and be fecured on funds accordingly. Monf. de Mirabeau was well heard, and his proposition much applauded. Monf. de Mounier, a deputy from Dauphine, of great reputation, and who has published fome pamphlets, very well approved by the public, moved a different resolution, to declare themselves the legitimate representatives of the majority of the nation: that they should vote by head and not by order: and that they should never acknowledge any right in the reprefentatives of the clergy or nobility to deliberate feparately. Monf. Rabaud St. Etienne, a protestant from Languedoc, also an author, who has written on the present affairs, and a man of confiderable talents, made likewife his propofition, which was to declare themselves the representatives of the people of France; to declare all taxes null; to regrant them during the fitting of the flates; to verify and confolidate the debt; and to vote a loan. All which were well approved except the loan, which was not at all to the feeling of the affembly. This gentleman speaks clearly and with precifion, and only paffages of his fpeech from notes. Monf. Bernave, a very young man, from Grenoble, fpoke without notes with great warmth and animation. Some of his periods were fo well rounded, and fo eloquently delivered, that he met with much applaufe, feveral members crying - bravo!

In regard to their general method of proceeding, there are two circumstances in which they are very deficient: the spectators in the galleries are allowed to interfere in the debates by clapping their hands, and by other noify expressions of approbation: this is grossly indecent; it is also dangerous; for, if they be permitted to express approbation, they are, by parity of reason, allowed expressions of diffent; and they may his as w l. as clap; which, it is said, they have sometimes done:—this would be, to

over-rule the debate, and influence the deliberations. Another circumstance, is the want of order among themselves; more than once to-day there were an hundred members on their legs at a time, and Monf. Baillie absolutely without power to keep This arifes very much from complex motions being admitted; to move a declaration relative to their title, to their powers, to taxes, to a loan, &c. &c. all in one proposition, appears to English ears preposterous, and certainly is so. Specific motions, founded on fingle and fimple propositions, can alone produce order in debate; for it is endless to have five hundred members declaring their reasons of affent to one part of a complex proposition, and their diffent to another part. A debating affembly should not proceed to any business whatever till they have settled the rules and orders of their proceedings, which can only be done by taking those of other experienced assemblies, confirming them as they find ufeful, and altering fuch as require to be adapted to dif-The rules and orders of debate in the House of Commons of ferent circumstances. England, as I afterwards took the liberty of mentioning to Monf. Rabaud St. Etienne, might have been taken at once from Hatfel's book, and would have faved them at leaft a fourth of their time. They adjourned for dinner. Dined ourselves with the Duc de Liancourt, at his apartments in the palace, meeting twenty deputies. I fat by M. Rabaud St. Etienne, and had much conversation with him; they all spoke with equal confidence on the fall of despotism. They foresee, that attempts very adverse to the fpirit of liberty will be made, but the fpirit of the people is too much excited at prefent to be crushed any more. Finding that the question of to-day's debate cannot be decided to-day, and that in all probability it will be unfinished even to-morrow, as the number that will fpeak on it is very great, return in the evening to Paris.

The 16th. To Dugny, ten miles from Paris, again with Monf. de Brouffonet, to wait on Monf. Creté de Palieul, the only practical farmer in the Society of Agriculture. M. Brouffonet, than whom no man can be more eager for the honour and improvement of a riculture, was defirous that I should witness the practice and improvements of a gentleman who stands so high in the list of good French farmers. Called first on the brother of Monf. Crete who at prefent has the poste, and consequently one hundred and forty horses; walked over his farm, and the crops he shewed me of wheat and oats were on the whole very fine, and fome of them fup rior; but I must confess I should have been better pleased with them it he had not had his stables so well filled with a view different from that of the farm. And to look for a course of crops in France is vain; he lows white corn twice, thrice, and even four times in fuccession. At dinner, &c. had much conversation with the two brothers, and some other neighbouring cultivators prefent, on this point, in which I recommended either turnips or cabbages, according to the foil, for breaking their rotations of white corn. But every one of them, except Monf. de Brouffonet, was against me, the demanded, Can we fow wheat after turnips and cabbages? On a finall portion you may and with great fuccels; but the time of confuming the greater part of the crop rend s it impossible. That is sufficient, if we cannot fow wheat after them, they cannot be good in France. This idea is every where nearly the same in that kingdom. I thin said, that they might have half their land under wheat, and yet be good farmers; thus - 1. Beans; -2. Wheat; -3. Tares; -4. Wheat; -5. Clover; 6 Wheat; -This they approve better of, but thought their own courses more profitable. But the most interesting circumstance of their farms is the chicory (chicorium iniybus). I had the fatisfaction to find, that Monf. Creté de Palieul had as great an opinion of it as ever; that his brother had adopted it; that it was very flourishing on both their firms, and on those of their neighbours also: I never fee this plant but I congratulate myfelf on having travelled for fomething more than to

write in my closet; and that the introduction of it in England would alone, if no other result had flowed from one man's existence, have been enough to shew that he did not live in vain. Of this excellent plant, and Mons. Creté's experiments on it, more elsewhere.

The 17th. Conversation turns on the motion of l'Abbé Syeves being accepted, though that of the Count de Mirabeau better relished. But his character is a dead weight upon him; there is a suspicion that he has received 100,000 livres from the Queen; a blind, improbable report; for his conduct would in every probability to very different had any fuch transaction taken place: but when a man's life has not pass d tree from grofs errors, to use the mildest language, suspicious are ever ready to fix on him, even when he is as free from what ought at the moment to give the imputation, as the most immaculate of their parriots. This report brings out others from their lurking holes; that he published, at her infligation, the anecdotes of the court of Berlin; and that the King of Prussia, knowing the causes of that publication, circulated the memoirs of Madame de la Motte all over Germany. Such are the eternal tales, fulpicions, and imi robabilities for which Paris has always been fo famous. One clearly, novevir, gathers from the complexion of convertation, even on the most ribiculous topics, provided of a public nature, how far, and for what reason, confidence is lodged in certain men. In every company, of every rank, you hear of the Count de Mirabeau's talents; that he is one of the first pens of France, and the first orator; and yet that he could not carry from confidence fix votes on any question in the states. His writings, however, fpread in Paris and the provinces: he published a journal of the states, written for a few days with fuch force, and fuch feverity, that it was filenced by an express edict of go-This is attributed to Monf. Necker, who was treated in it with fo little ceremony, that his vanity was wounded to the quick. The number of fubfcribers to the journal was fuch, that I have heard the profit to Monf. Mirabeau calculated at 80,000 livres 350 l. a year. Since its suppression, he publishes once or twice a week a small pamphlet, to answer the same purpose, of giving an account of the debates, or rather observations on them, entitled, 1, 2, 3, &c. Lettre de Comte de Mirabeau à ses Commetans, which, though violent, farcastic, and severe, the court has not thought proper to stop, respecting, I suppose, its title. It is a weak and miserable conduct, to single out any particular publication for prohibition, while the prefs groans with innumerable productions, whose tendency is absolutely to overturn the present government; to permit fuch pamphlets to be circulated all over the kingdom, even by the pofts and dilige ces in the hands of government, is a blindness and folly, from which there are no effects that may not be expected. In the evening to the comic opera; Italian mufic, Italian words, and Italian performers; and the applaute for inceffaut and rapturous, that the ears of the French must be changing apace. What would Jean Jacques have said, could he have been a witness to such a spectacle at Paris!

The 18th. Yellerday the commons decreed themfolves, in confequence of the Abbé Syeyes's intended motion, the title of Affemblé Nationale; and also, confidering themfolves then in activity, the illegality of all taxes; but granted them during the fession, declaring that they would, without delay, delib rate on the confolidating of the debt; and on the relief of the misery of the people. These steps give great spirits to the violent partizans of a new constitution, but, amongst more sober minds, the content of apprehension, that it will prove a precipital emeasure. It is a violent step, which may be taken hold of by the court, and converted sery much to the people's disadvantage. The reasoning of Mons, de Mirabeau against it was foreible and just—"Si je vou assemployer contrelles autres motions les armes dont on se ser pour attaquer la miente."

ne pourrois-je pas dire a mon tour: de quelque maniere que vous-vous qualifiez, que vous foyez les repréfentans connus & verifiés de la nation, les repréfentans de 25 millions d'hommes, les repréfentans de la majorité du peuple, dufliez-vous même vous appeller l'Assembleé Nationale, les états généraux, empécherez-vous les classes privilegies de continuer des assembleés que fa majesté a reconnues? Les empécherez vous de prendre des de liberationes? Les empécherez-vous de pretendre au veto? Empécherez vous le Roi de les recevoir? De les reconnoître, de leur continuer les mêmes titres qu'il leur a donnés jusqu'a present? Ensin, empécherez-vous la nation d'appeller le elergé, le clergé, la noblesse, la noblesse?"

To the Royal Society of Agriculture, where I gave my vote with the rest, who were unanimous for electing General Washington an honorary member; this was a proposal of Mons. Ide Broussonet, in consequence of my having assured him, that the General was an excellent farmer, and had corresponded with me on the subject. Abbé Commercel was present; he gave a pamphlet on a new project, the choux a fauché, and

a paper of the feed.

The 19th. Accompanied Monf. de Brouflonet to dine with Monf. de Parmentier, at the hotel des invalids. A prefident of the parliament, a Monf. Mailly, brother-in-law to the chancellor, was the .; Abbé Commerel, &c. &c. I remarked two years ago, that Monf. Parmentier is one of the belt of men, and beyond all question understands every circumstance of the boulangerie better than any other writer, as his productions clearly manifest. After dinner to the plains of Sablon, to see the Society's potatoes and preparations for turnips, of which I shall only say that I wish my brethren to stick to their scientific farming, and leave the practical to those who understand it. What a sad thing for philosophical husbandmen that God Almighty created such a thing as couch (triti-

cum repens.)

The 20th, News!-News!-Every one flares at what every one might have expected. A meflage from the King to the Prefidents of the three orders, that he should meet them on Monday; and, under pretence of preparing the hall for the feance royale, the French guards were placed with bayonets to prevent any of the deputies entering The circumstances of doing this iil-judged act of violence have been as illadvised as the act itself. Monf. Bailly received no other notice of it than by a letter from the Marquis de Brézé, and the Deputies met at the door of the hall, without knowing that it was shut. Thus the feeds of disgust were fown wantonly in the manner of doing a thing, which in itself was equally impalatable and unconstitutional. The refolution taken on the spot was a noble and firm one; it was to assemble instantly at the Jeu de paume, and there the whole affembly took a folemn oath never to be diffolyed but by their own confent, and to confider themselves, and act as the National Assembly, let them be wherever violence or fortune might drive them; and their expectations were fo little favourable, that expresses were sent off to Nantes, intimating that the National Assembly might possibly find it necessary to take refuge in some distant city. This meffage, and placing guards at the hall of the flates, are the refult of long and repeated councils, held in the King's presence at Marly, where he has been shut up for some days, feeing nobody; and no perfon admitted, even to the officers of the court, without jealoufy and circumfpection. The King's brothers have no feat in the council, but the Count d'Artois inceflantly attends the refolutions, conveys them to the Queen, and has long conferences with her. When this never arrived at Paris, the Palais Royal was in a flame, the coffee-houses, pamphlet-shops, corridores, and gardens were crouded.alarm and apprehension fat in every eye, - the reports that were circulated eagerly, tending to shew the violent intentions of the court, as if it were bent on the utter extir-VOL IV.

pation of the French nation, except the party of the Queen, are perfectly incredible for their groß abfurdity: yet nothing was so glaringly ridiculous, but the mob swallowed it with undiscriminating faith. It was, however, curious to remark, among persons of another description (for I was in several parties after the news arrived), that the balance of opinions was clearly that the National Assembly, as it called itself, had gone too far—had been too precipitate—and too violent—had taken steps that the mass of the people would not support. From which we may conclude, that if the court, having seen the tendency of their late proceedings, shall pursue a firm and politic plan, the popular cause will have little to boass.

The 21st. It is impossible to have any other employment at so critical a moment, than going from house to house demanding news; and remarking the opinions and ideas most current. The present moment is, of all others, perhaps that which is most pregnant with the future defliny of France. The step the Commons have taken of declaring themselves the National Assembly, independent of the other orders, and of the King himfelf, precluding a diffolution, is in fact an affumption of all the authority in the kingdom. They have at one stroke converted themselves into the long parliament of Charles I. It needs not the affiftance of much penetration to fee that if fuch a pretenfion and declaration be not done away, King, Lords, and Clergy are deprived of their fhares in the legislature of France. So bold, and apparently desperate a step, equally destructive to the royal authority, the parliaments, and the army, and to every interest in the researce can never be allowed. If it be not opposed, all other powers will lie in ruins around that of the Commons. With what anxious expectation must one therefore wait to fee if the crown will exert itself firmly on the occasion, with such an attention to an improved fyftem of liberty, as is absolutely necessary to the moment! All things confidered, that is, the characters of those who are in possession of power, no well digefted fystem and steady execution are to be looked for. In the evening to the play; Madame Rocquere performed the Queen in Hamlet; it may cafily be supposed how that play of Shakespeare is cut in pieces. It has however effect by her admirable

The 22d. To Verfailles at fix in the morning, to be ready for the feance royale. Breakfalting with the Duc de Liancourt, we found that the King had put off going to the flates till to-morrow morning. A committee of council was held laft night, which fat till midnight, at which were prefent Monfieur and the Count d'Artois for the first time: an event confidered as extraordinary, and attributed to the influence of the Queen. The Count d'Artois, the determined enemy of Monf. Necker's plans, oppeld his fystem, and prevailed to have the feance put off to give time for a council in the King's prefence to day. From the chateau we went to find out the deputies; reports were various where they were affembling. To the Récolets, where they had been, but finding it incommodious, they went to the church of St. Louis, whither we followed them, and were in time to fee M. Bailly take the chair, and read the King's letter, putting off the feance till to morrow. The spectacle of this meeting was fingular,—the crowd that attended in and around was great—and the anxiety and suspense in every eye, with the variety of expression that flowed from different views and different characters, gave to the countenances of all the world an impression I had never witnessed before. The only business of importance transacted, but which lasted till three o'clock, was receiving the oaths and figuatures of fome deputies, who had not taken them at the Jeu de paume; and the union of three Bishops and one hundred and fifty of the Deputies of the Clergy, who came to verify their powers, and were received by fuch applaufe, with fuch clapping and shouting from all present, that the church resounded. Apparently

Apparently the inhabitants of Verfailles, which having a population of fixty thousand people can afford a pretty numerous mob, are to the last person in the interest of the Commons; remarkable, as this town is absolutely fed by the palace; and if the cause of the Court be not popular here, it is easy to suppose what it must be in all the rest of the kingdom. Dine with the Duc de Liancourt, in the palace, a large party of Nobility and Deputies of the Commons, the Duc d'Orleans amongst them; the Bishop of Rodez, Abbé Syeves, and Monf. Raband St. Etienne. This was one of the most striking instances of the impression made on men of different ranks by great events. In the streets, and in the church of St. Louis, such auxiety was in every face, that the importance of the moment was written in the physiognomy; and all the common forms and falutations of habitual civility loft in attention: but amongst a class so much higher as those I dined with, I was struck with the difference. There were not, in thirty perfons, five in whose countenances you could guess that any extraordinary event was going forward: more of the convertation was indifferent than I should have expected. Had it all been fo, there would have been no room for wonder; but observations were made of the greatest freedom, and so received as to mark that there was not the least impropriety in making them. In fuch a case, would not one have expected more energy of feeling and expression, and more attention in conversation to the crisis that must in its nature fill every bosom? Yet they ate, and drank, and fat, and walked, loitered, and fmirked and fmiled, and chatted with that eafy indifference, that made me stare at their Perhaps there is a certain nonchalence that is natural to people of fashion from long habit, and which marks them from the vulgar, who have a thousand asperities in the expression of their feelings, that cannot be found on the polished surface of those whose manners are smoothed by society, not worn by attrition. Such an observation would therefore in all common cases be unjust; but I confess the present moment, which is beyond all question the most critical that France has seen from the foundation of the monarchy, fince the council was aftembled that must finally determine the King's conduct, was fuch as might have accounted for a behaviour totally different. The prefence of the Duc d'Orleans might do a little, but not much; his manner might do more; for it was not without fome difgust, that I observed him several times playing off that fmall fort of wit, and flippant readiness to titter, which, I suppose, is a part of his character, or it would not have appeared to-day. From his manner, he feemed not at all difpleafed. The Abbé Syeves has a remarkable physiogmony, a quick rolling eye; penetrating the ideas of other people, but so cautiously referved as to guard his own. There is as much character in his air and manner as there is vacuity of it in the countenance of Monf. Rabaud St. Etienne, whose physiognomy, however, is far from doing him justice, for he has undoubted talents. It feems agreed, that if in the council the Count d'Artois carries his point, Monf. Necker, the Count de Montmorin, and Monf. de St. Prieft will refign; in which case Mons. Necker's return to power, and in triumph, will inevitably happen. Such a turn, however, must depend on events.——Evening.— The plan of the Count d'Artois accepted; the King will declare it in his speech tomorrow. Monf. Necker demanded to refign, but was refused by the King. All is now anxiety to know what the plan is.

The 23d. The important day is over: in the morning Verfailles feemed filled with troops: the fireets about ten o'clock, were lined with the French guards, and some Swifs regiments, &c.: the hall of the states was surrounded, and centinels sixed in all the passages, and at the doors; and none but deputies admitted. This military preparation was ill judged, for it feemed admitting the impropriety and unpopularity of the intended measure, and the expectation, perhaps fear, of popular commotions. They

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pronounced

pronounced, before the King left the chateau, that his plan was adverse to the people. from the military parade with which it was ufhered in. The contrary, however, proved to be the fact; the propositions are known to all the world: the plan was a good one; much was granted to the people in great and effential points; and as it was granted before they had provided for those public necessities of sinance, which occasioned the states being called together; and confequently left them at full power in future to procure for the people all that opportunity might prefent, they apparently ought to accept them, provided fome fecurity be given for the future meetings of the flates, without which all the reft would be infecure; but as a little negotiation may eafily fecure this, I apprehend the deputies will accept them conditionally: the use of foldiers, and some imprudencies in the manner of forcing the King's fystem, relative to the interior constitution, and affembling of the deputies, as well as the ill-blood which had had time to brood for three days pall in their minds, prevented the commons from receiving the King with any expressions of applause; the clergy, and some of the nobility, cried "vive le Roi!" but treble the number of mouths being filent, took off all effect. It feems they had previously determined to submit not to violence: when the King was gone, and the clergy and nobility retired, the Marquis de Brézé waiting a moment to fee if they meant to obey the King's express orders, to retire also to another chamber prepared for them, and perceiving that no one moved, addressed them - "Messieurs, your connoissez les intentions du Roi." A dead filence enfued; and then it was that fuperior talents bore the fway, that overpowers in critical moments all other confiderations. The eyes of the whole affembly were turned on the Count de Mirabeau, who inflantly replied to the Marquis de Brézé-" Oui, Monfieur, nous avons entendre les intentions qu'on a fuggércés au Roi, & vous qui ne fauriez étre fon organe auprés des ctats généraux, vous qui n'avez ici ni place, ni voix, ni droit de parler, vous n'êtes pas fait pour nous rapeller fon difcours. Cependant pour eviter toute équivoque, & tout delai, je vous declare que fi l'on vous a chargé de nous faire fortir d'ici, vous devez demander des ordres pour employer la force, car nous ne quitterons nos places que par la puissance de la baionette."—On which there was a general cry of -" Tel eft le væn de l'Affemt le :. ' They then immediately passed a confirmation of their preceding arrets; and, on the motion of the Count de Mirabeau, a declaration that their perfons, individually and collectively, were facred; and that all who made any attempts against them should be deemed infamous traitors to their country.

The 24th. The ferment at Paris is beyond conception; ten thoufand people have been all this day in the Palais Royal; a full detail of yesterday's proceedings was brought this morning, and read by many apparent leaders of little parties, with comments to the people. To my surprise, the King's propositions are received with universal disgust. He said nothing explicit on the periodical meeting of the states; he declared all the old seudal rights to be retained as property. These, and the change in the balance of representation in the provincial assemblies, are the articles that give the greatest offence. But, instead of looking to, or hoping for further concessions on these points, in order to make them more consonant to the general wishes, the people seem, with a fort of phrenzy, to reject all idea of compromise, and to insist on the necessity of the orders uniting, that full power may consequently reside in the commons, to essentiate they call the regeneration of the kingdom; a favourite term, to which they affix no precise idea, but add the indefinite explanation of the general referm of all abuses. They are also sult of suspicions at M. Necker's offering to resign, to which circumstance they seem to look more than to much more essential points. It is plain to me, from many convertations and harangues I have been witness to, that the constant meetings at

the Palais Royal, which are carried to a degree of licentiousness and fury of liberty, that is fearcely credible, united with the innumerable inflammatory publications that have been hourly appearing fince the affembly of the states, have so heated the people's expectations, and given them the idea of such total changes, that nothing the King or court could do would now fatisfy them; confequently it would be idleness itself to make concessions that are not steadily adhered to, not only to be observed by the King, but to be enforced on the people, and good order at the same time restored. But the flumbling-block to this and every plan that can be devised, as the people know and declare in every corner, is the fituation of the finances, which cannot possibly be restored but by liberal grants of the states on the one hand, or by a bankruptcy on the other. It is well known, that this point has been warmly debated in the council: Monf. Necker has proved to them, that a bankruptcy is inevitable, if they break with the states before the finances are reftored; and the dread and terror of taking fuch a step, which no minister would at prefent dare to venture on, has been the great difficulty that opposed itself to the projects of the Queen are the Count d'Artois. The measure they have taken is a middle one, from which they hope to gain a party among the people, and render the deputies unpopular enough to get rid of them: an expectation, however, in which they will infallibly be miltaken. If, on the fide of the people it be urged, that the vices of the old government make a new fystem necessary, and that it can only be by tio firmest measures that the people can be put in possession of the blessings of a free government; it is to be replied, on the other hand, that the personal character of the King is a just foundation for relying that no measures of actual violence can be seriously feared: that the state of the sinances, under any possible regimen, whether of faith or bankruptcy, must secure their existence, at least for time sufficient to secure by negotiation, what may be hazarded by violence; that by driving things to extremities, they rifque an union between all the other orders of the state, with the parliaments, army, and a great body even of the people, who must disapprove of all extremities; and when to this is added the possibility of involving the kingdom in a civil war, now so familiarly talked of, that it is upon the lips of all the world, we must confess, that the commons, if they fleadily refuse what is now held out to them, put immense and certain benefits to the chance of fortune, to that hazard which may make posterity curse, instead of bless, their memories as real patriots, who had nothing in view but the happiness of their country. Such an inceffant buz of politics has been in my ears for some days past, that I went to night to the Italian opera, for relaxation. Nothing could be better calculated for that effect, than the piece performed, "La Villanella Rapita," by Bianchi, a delicious composition. Can it be believed, that this people, who so lately valued nothing at an opera but the dances, and could hear nothing but a fquall-now attend with feeling to Italian melodies, applaud with tafte and rapture, and this without the meretricious aid of a fingle dance! The music of this piece is charming, elegantly playful, airy, and pleafing, with a duet, between Signora Mandini, and Viganoni, of the first lustre. The former is a most fascinating singer-her voice nothing, but her grace, expression, soul, all strung to exquisite sensibility.

The 25th. The criticisms that are made on Mons. Necker's conduct, even by his friends, if above the level of the people, are severe. It is positively afferted, that Abbe Syeyes, Messer. Mounier, Chapellier, Bernave, Target, Tourette, Rabaud, and other leaders, were almost on their knees to him, to insist peremptorily on his resignation being accepted, as they were well convinced that his retreat would throw the Queen's party into infinitely greater difficulties and embarrassiment than any other circumstance. But his vanity prevailed over all their efforts to listen to the insidious persuasions of the

Queen,

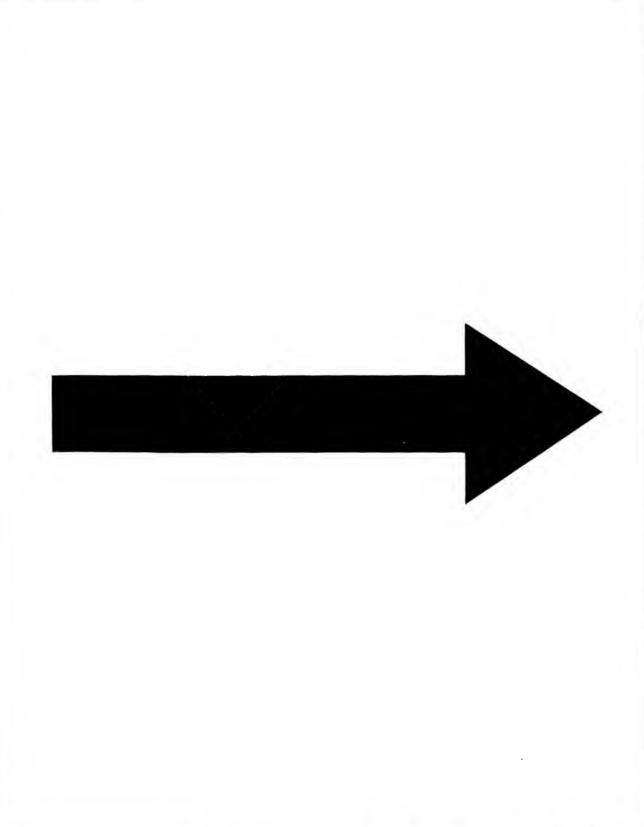
Once, who spoke to him in the style of asking it as a request, that he would keep the crown on the King's head; at the fame time that he yiel led to do it, contrary to the interest of the friends of liberty, he seemed so pleased with the huzzas of the mob of Verfailles, that it did much mifchief. The minife senever go to and from the King's apartment on foot, acrost the court, which Monf. Necker took this opportunity of doing, though he himself had not done it in quiet times, in order to court the flattery of bear called the father of the people, and moving with an immenfe and shouting multitude at his heels. Nearly at the time that the Queen, in an audience almost private, spoke as above to M. Necker, the received the deputation from the nobility, with the Dauphin in her hand, whom the prefented to them, claiming of their honour, the protection of her fon's rights; clearly implying, that if the step the King had taken was not steadily purfued, the monarchy would be loft, and the nobility funk. While M. Necker's mob was heard through every apartment of the chateau, the King passed in his coach to Marly, through a dead and mournful filence—and that just after having given to his people, and the cause of liberty, more perhaps than ever any monarch had done before. Of fuch materials are all mobs made—fo impossible is it to fatisfy in moments like incle, when the heated imagination dreffes every vifionary project of the brain in the bewitching colours of liberty. I feel great anxiety to know what will be the refult of the deliberations of the commons, after their first protests are over, against the military violence which was fo unjustifiably and injudiciously used. Had the King's proposition come after the supplies were granted, and on any inferior question, it would be quite another affair; but to offer this before one shilling is granted, or a step taken, makes all the difference imaginable. ——Evening. —The conduct of the court is inexplicable, and without a plan: while the late step was taken, to secure the orders fitting separate, a great body of the clergy had been permitted to go to the commons, and the Duc d'Orleans, at the head of forty-feven of the nobility, has done the fame: and, what is equally a proof of the uniteadiness of the court, the commons are in the common hall of the flates, contrary to the express command of the King. The fact is, the seance royale was repugnant to the perfonal feelings of the King, and he was brought to it by the council with much difficulty; and when it afterwards became necessary, as it did every hour, to give new and effective orders to support the fystem then laid down, it was requifite to have a new battle for every point; and thus the scheme was only opened, and not perfifted in: - this is the report, and apparently authentic: it is eafy to fee, that that step had better, on a thousand reasons, not have been taken at all, for all vigour and effect of government will be loft, and the people be more assuming than ever. Yesterday, at Verfailles, the mob was violent-they infulied, and even attacked all the clergy and nobility that are known to be strenuous for preferving the separation of orders. The Bishop of Beauvais had a stone on his head, that almost struck him down *. The Archbishop of Paris had all his windows broken, and forced to move his lodgings; and the Cardinal de la Rochefoucauld hiffed and hooted. The confusion is so great, that the court have only the troops to depend on; and it is now faid confidently, that if an order be given to the French guards to fire on the people, they will refuse obedience: this aftonishes all, except those who know how they have been difgusted by the treatment, conduct, and manœuvres of the Duc de Chatelet, their colonel: fo wretchedly have the affairs of the court, in every particular, been managed; fo miferable its choice

[•] If they had treated him more feverely, he would not have been an object of much pity. At a meeting of the Society of Agriculture in the country, where common farmers were admitted to dine with people of the first rank, this proud fool made difficulties of fitting down in such company.

of the men in offices, even fuch as are the most intimately connected with its safety, and even existence. What a lesson to princes, how they allow intriguing courtiers, women, and fools, to interfere, or assume the power that can be lodged, with safety, only in the hands of ability and experience! It is afferted expressly, that these mobs have been excited and insligated by the leaders of the commons, and some of them paid by the D. c d'Orleans. The distraction of the ministry is extreme.—At night to the theatre Fran-

çois; the Earl of Effex, and the Maifon de Moliore.

The 26th. Every hour that passes here seems to give the people fresh spirit: the meetings at the Palais Royal are more numerous, more violent, and more affured; and in the affembly of electors, at Paris, for fending a deputation to the National Affembly, the language that was till ed, by all ranks of people, was nothing like establishment of a free constitution: lefs than a revolution in the govern what they mean by a free conftitution understood—a republic; for the doctrine of the times runs every day rore to that point; yet they profess, that the kingdom ought to be a monarc ", at leafl, that there ought to be a king. In the streets one is stunned by the . a. feditious pamphlets, and descriptions of pretended events, that all tend to keep the equally ignorant and distrined. The fupin nefs, and even flupidity of the court, is without example: the moment demands the greatest decision—and yesterday, while it was actually a question, whether he should be a Doge of Venice, or a King of France, the King went a hunting! The spectacle of the Palais Royal prefented this night, till eleven o'clock, and, as we afterwards heard, almost till morning, is curious. The croud was prodigious, and fire-works of all forts were played off, and all the building was illuminated: thefe were faid to be rejoicings on account of the Duc d'Orleans and the nobility joining the commons; but united with the exceffive freedom, and even licentiousnels of the orators, who harangue the people; with the general movement which before was threatening, all this build and noife, which will not leave them a moment tranquil, has a prodigious effect in preparing them for whatever purposes the leaders of the commons shall have in view; consequently they are growly and diametrically opposite to the interests of the court;—but all these are blind and infatuated. It is now underflood by every body, that the King's officers, in the feance royale, are out of the question. The moment the commons found a relaxation, even in the trilling point of affembling in the great hall, they difregarded all the reft, and confidered the whole as null, and not to be taken notice of, unless entorced in a manner of which there were no figns. They lay it down for a maxim, that they have a right to a great deal more than what the King touched on, but that they will accept of nothing as the concession of power; they will assume and secure all to themselves. as matters of right. Many perfons I talk with, feem to think there is nothing extraordinary in this,—but it appears, that fuch pretentions are equally dangerous and inadmiffible, and lead directly to a civil war, which would be the height of madnefs and folly, when public liberty might certainly be fecured, without any fuch extremity. If the commons are to affirme every thing as their right, what power is there in the flate, thort of arms, to prevent them from affuning what is not their right? They infligate the people to the most extensive expectations, and if they be not gratified, all must be confusion; and even the King himself, easy and lethargic as he is, and indifferent to power, will by and by be feriously alarmed, and ready to listen to measures, to which he will not at prefent give a moment's attention. All this feems to point flrongly to great confusion, and even civil commotions; and to make it apparent, that to have accepted the King's offers, and made them the foundation of future negociation, would have been the wifest conduct—and with that idea I shall leave Paris.



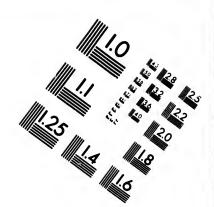
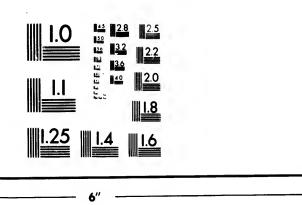


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The 27th. The whole business now seems over, and the revolution complete. The King has been frightened by the mobs into overturning his own act of the seance royale, by writing to the prefidents of the orders of the nobility and clergy, requiring them to join the commons, -in direct contradiction to what he had ordained before. It was represented to him, that the want of bread was so great in every part of the kingdom. that there was no extremity to which the people might not be driven: that they were nearly starving, and consequently ready to listen to any suggestions, and on the qui vive for all forts of mischief: that Paris and Verfailles would inevitably be burnt; and in a word, that all forts of milery and confusion would follow his adherence to the syftem announced in the feance royale. His apprehensions got the better of the party who had for fome days guided him; and he was thus induced to take this step, which is of fuch importance, that he will never more know where to ftop, or what to refuse; or rather he will find, that in the future arrangement of the kingdom, his situation will be very nearly that of Charles I. a spectator, without power, of the effective refolutions of a long parliament. The joy this step occasioned was infinite; the whole affembly, uniting with the people, hurried to the chateau. Vive le Roy might have been heard at Marly: the King and Queen appeared in the balcony, and were received with the loudest shouts of applause; the leaders, who governed these motions, knew the value of the concession much better than those who made it. I have to-day had conversation with many persons on this business; and to my amazement, there is an idea, and even among many of the nobility, that this union of the orders is only for the verification of their powers, and for making the conflitution, which is a new term they have adopted; and which they use as if a constitution were a pudding to be made by a receipt. In vain I have asked, where is the power that can separate them hereafter, if the commons infift on remaining together, which may be supposed, as such an arrangement will leave all the power in their hands? And in vain I appeal to the evidence of the pamphlets written by the leaders of that affembly, in which they hold the English constitution cheap, because the people have not power enough, on account of that of the Crown and the House of Lords. The event now appears so clear, as not to be difficult to predict: all real power will be henceforward in the commons; having fo much inflamed the people in the exercise of it, they will find themselves unable to use it temperately; the court cannot sit to have their hands tied behind them; the clergy, nobility, parliaments, and army, will, when they find themselves in danger of annihilation, unite in their mutual defence; but as fuch an union will demand time. they will find the people armed, and a bloody civil war must be the result. I have more than once declared this as my opinion, but do not find that others unite in it *. At all events, however, the tide now runs fo strongly in favour of the people, and the conduct of the court fo weak, divided, and blind, that little can happen that will not clearly be dated from the prefent moment. Vigour and abilities would have turned every thing on the fide of the court; for the great mass of nobility in the kingdom, the higher clergy, the parliaments, and the army, were with the crown; but this defertion of the conduct which was necessary to secure its power, at a moment so critical, must lead to

^{*} I may remark a present, long after this was written, that, although I was totally millaken in my prediction, yet, on a revision, I think I had a reasonable ground for it, and that the common course of events would have produced such a civil war, to which every thing tended, from the moment the Commona rejected the King's propositions of the searce royale, which I now think, more than ever, they ought, with qualifications, to have accepted. The events that sollowed were as little to be thought of as of myself being made King of France.

all forts of pretentions. At night the fire-works, and illuminations, and mob, and noise, at the Palais Royal increased; the expence must be enormous; and yet nobody knows with certainty whence it arises: shops there are, however, that for 12 sous, give as many squibs and serpents as would cost five livres. There is no doubt of its being the Duc d'Orleans' money: the people are thus kept in a continual ferment, are for ever assembled, and ready to be in the last degree of commotion whenever called on by the men they have confidence in. Lately a company of Swiss would have crushed all this; a regiment would do it now if led with firmness; but, let it last a fortnight longer, and an army will be requisite.—At the play, Mademoiselle Contá, in the Misanthrope of Moliere, charmed me. She is truly a great actress; ease, grace, person, beauty, wit, and soul. Mola did the Misanthrope admirably. I will not take leave of the theatre François without once more giving it the preference to all I have ever feen.

I shall leave Paris truly rejoiced that the representatives of the people have it undoubtedly in their power fo to improve the constitution of their country, as to render all great abuses in future, if not impossible, at least exceedingly difficult, and consequently will establish to all useful purposes, an undoubted political liberty; and if they effect this, it cannot be doubted but that they will have a thousand opportunities to secure to their fellow-subjects the invaluable bleffing of eivil liberty also. The state of the finances is fuch, that the government may eafily be kept virtually dependant on the flates, and their periodical existence absolutely secured. Such benefits will confer happiness on twenty-five millions of people; a noble and animating idea, that ought to fill the mind of every citizen of the world, whatever be his country, religion, or purfuit. I will not allow myself to believe for a moment, that the representatives of the people can ever fo far forget their duty to the French nation, to humanity, and their own fame, as to fuffer any inordinate and impracticable views,—any visionary or theoretic fystems,—any frivolous ideas of speculative perfection; much less any ambitious private views, to impede their progress, or turn aside their exertions, from that security which is in their hands, to place on the chance and hazard of public commotion and civil war, the invaluable bleffings which are certainly in their power. I will not conceive it posfible, that men, who have eternal fame within their grasp, will place the rich inheritance on the cast of a die, and losing the venture, be damned among the worst and most profligate adventurers that ever difgraced humanity.—The Duc de Liancourt having made an immense collection of pamphlets, buying every thing that has a relation to the present period; and among the rest, the cahiers of all the districts and towns of France of the three orders; it was a great object with me to read these, as I was sure of finding in them a representation of the grievances of the three orders, and an explanation of the improvements wished for in the government and administration; these cahiers being instructions given to their deputies, I have now gone through them all, with a pen in hand, to make extracts, and shall therefore leave Paris to-

The 28th. Having provided myself a light French cabriolet for one horse, or gig Anglois, and a horse, I lest Paris, taking leave of my excellent friend Monsieur Lazowski, whose anxiety for the fate of his country made me respect his character as much as I had reason to love it for the thousand attentions I was in the daily habit of receiving from him. My kind protectres, the Duches d'Estissa, had the goodness to make me promise, that I would return again to her hospitable hotel, when I had sinished the journey I was about to undertake. Of the place I dined at on my road to Nangis, I forget the name, but it is a post-house on the lest, at a small distance out of vol. 19.

the road. It afforded me a bad room, bare walls, cold raw weather, and no fire; for, when lighted, it fmoked too much to be borne; -I was thoroughly out of humour: I had passed sometime at Paris amidst the fire, energy, and animation of a great revolution. And for those moments not filled by political events, I had enjoyed the refources of liberal and instructing conversation; the amusements of the first theatre in the world, and the fascinating accents of Mandini, had by turns solaced and charmed the fleeting moments: the change to inns, and those French inns; the ignorance in all persons of those events that were now passing, and which so intimately concerned them; the detestable circumstance of having no newspapers, with a press much freer than the English, altogether formed such a contrast, that my heart sunk with depresfion. At Guignes, an itinerant dancing-mafter was fiddling to fome children of tradefmen; to relieve my fadness, I became a spectator of their innocent pleasures, and, with great magnificence, I gave four 12/, pieces for a cake for the children, which made them dance with fresh animation; but my host, the post-master, who is a surly pickpocket, thought that if I was fo rich, he ought also to receive the benefit, and made me pay o livres 10/. for a miferable tough chicken, a cutlet, a fallad, and a bottle of forry wine. Such a dirty, pilfering disposition, did not tend to bring me into better

humour. _____30 miles.

The 20th. To Nangis, the chateau of which belongs to the Marquis de Guerchy. who last year at Caen had kindly made me promise to spend a few days here. A house almost full of company, and some of them agreeable, with the eagerness of Monsieur de Guerchy for farming, and the amiable naiveté of the Marchioness, whether in life, politics, or a farm, were well calculated to bring me into tune again. But I found myfelf in a circle of politicians, with whom I could agree in hardly any other particular, except the general one of cordially wishing that France might establish an indestructible fystem of liberty; but for the means of doing it, we were far as the poles afunder. The chaplain of Monsieur de Guerchy's regiment, who has a cure here, and whom I had known at Caen, Monsieur l'Abbé de --, was particularly strenuous for what is called the regeneration of the kingdom, by which it is impossible, from the explanation, to understand any thing more than a theoretic perfection of government; questionable in its origin, hazardous in its progress, and visionary in its end; but presenting itself under a most suspicious appearance to me, because all its ad from the pamplets of the leaders in the National Affembly, to the gentlemen who make its panegyric at prefent, affect to hold the constitution of England cheap in respect of liberty: and as that is unquestionably, and by their own admission, the best the world ever faw, they profess to appeal from practice to theory, which, in the arrangement of a question of science, might be admitted, though with caution; but, in establishing the complex interest of a great kingdom, in securing freedom to twenty-five millions of people, feems to me the very acmé of imprudence, the very quintessence of infanity. My argument was an appeal to the English constitution; take it at once, which is the business of a fingle vote; by your possession of a real and equal representation of the people, you have freed it from its only great objection; in the remaining circumstances, which are but of small importance, improve it - but improve it cautiously; for surely that ought to be touched with caution, which has given, from the moment of its establishment, felicity to a great nation; which has given greatness to a people designed by nature to be little; and, from being the humble copiers of every neighbour, has rendered them, in a fingle century, rivals of the most successful nations in those decorative arts that embellish human life; and the masters of the world in all those that contribute to its convenience. I was commended for my attachment to what I thought

was liberty; but answered, that the King of France must have no veto on the will of the nation; and that the army must be in the hands of the provinces, with an hundred ideas equally impracticable and prepofterous. Yet these are the sentiments which the court has done all in its power to fpread through the kingdom; for will postericy believe, that while the press has swarmed with inflammatory productions, that tend to prove the bleffings of theoretical confusion, and speculative licentiousness, not one writer of talents has been employed to refute and confound the fashionable doctrines. nor the least care taken to diffeminate works of another complexion? By the way, when the court found that the states could not be affembled on the old plan, and that great innovations must accordingly be made, they ought to have taken the constitution of England for their model; in the mode of affembling, they should have thrown the Clergy and Nobles into one chamber, with a throne for the King, when present. The Commons should have assembled in another, and each chamber, as in England, should have verified its powers to itself only. And when the King held a scance royale, the Commons should have been sent for to the bar of the Lords, where seats should have been provided; and the King, in the edict that constituted the states, should have copied from England enough of the rules and orders of proceeding to prevent those preliminary discussions, which in France lost two months, and gave time for heated imaginations to work upon the people too much. By taking such steps, security would have been had, that if changes or events unforeseen arose, they would at least be met with in no fuch dangerous channel as another form and order of arrangement would permit.

-15 miles The 30th. My friend's chateau is a confiderable one, and much better built than was common in England in the same period, two hundred years ago; I believe, however, that this superiority was universal in France, in all the arts. They were, I apprehend, in the reign of Henry IV. far beyond us in towns, houses, streets, roads, and, in short, in every thing. We have since, thanks to liberty, contrived to turn the tables on them. Like all the chateaus I have feen in France, it stands close to the town, indeed joining the end of it; but the back front, by means of fome very judicious plantations, has entirely the air of the country, without the fight of any buildings. There the present Marquis has formed an English lawn, with some agreeable winding walks of gravel, and other decorations, to skirt it. In this lawn they are making hay, and I have had the Marquis, Monf. l'Abbé, and some others on the stack to shew them how to make and tread it: fuch hot politicians!—it is well they did not fet the flack on fire. Nangis is near enough to Paris for the people to be politicians; the perruquier that dreffed me this morning tells me, that every body is determined to pay no taxes, should the National Affembly so ordain.—But the soldiers will have something to say.—No, Sir, never:—be affured as we are, that the French foldiers will never fire on the people: but, if they should, it is better to be shot than starved. He gave me a frightful account of the mifery of the people; whole families in the utmost distress; those that work have a pay infufficient to feed them—and many that find it difficult to get work at all. I enquired of Monf. de Guerchy concerning this, and found it true. By order of the magistrates, no person is allowed to buy more than two bushels of wheat at a market, to prevent monopolizing. It is clear to common fense, that all such regulations have a direct tendency to increase the evil, but it is in vain to reason with people whose ideas are immoveably fixed. Being here on a market-day, I attended, and faw the wheat fold out under this regulation, with a party of dragoons drawn up before the market-cross to prevent violence. The people quarrel with the bakers, afferting the prices they demand for bread are beyond the proportion of wheat, and proceeding B B 2 from from words to fcuffling, raife a riot, and then run away with bread and wheat for nothing: this has happened at Nangis, and many other markets; the confequence was, that neither farmers nor bakers would supply them till they were in danger of starving, and prices under fuch circumstances, must necessarily rife enormously, which aggravated the mischief, till troops became really necessary to give fecurity to those who supplied the markets. I have been fifting Madame de Guerchy on the expenses of living; our friend Monf. L'Abbé joined the conversation, and I collect from it, that to live in a chateau like this, with fix men-fervants, five maids, eight horfes, a garden, and a regular table, with company, but never to go to Paris, might be done for 1000 louis a year. It would in England cost 2000; the mode of living (not the price of things) is therefore cent. per cent. different. There are gentlemen (nobleffe) who live in this country on 6 or 8000 livres, (262l. to 350l.), that keep two men, two maids, three horses, and a cabriolet; there are the fame in England, but they are fools. Among the neighbours who vifited Nangis was Monf. Trudaine de Montigny, with his new and pretty wife, to return the first visit of coremony: he has a fine chateau at Montigny, and an estate of 4000 louis a year. This lady was Mademoiselle de Cour Breton, niece to Madame Calonne; she was to have been married to the fon of Mons. Lamoignon, but much against her inclinations; finding that common refusals had no avail, she determined on a very uncommon one, which was to go to church, in obedience to her father's orders, but to give a folemn no instead of a yea. She was afterwards at Dijon, and never flirred but flie was received with huzzas and acclamations by the people for refufing to be allied with la Cour Pleniere; and her firmness was every where spoken of much to her advantage. Monf. la Luzerne, nephew to the French ambaffador at London, was there, and who informed me, that he had learned to box of Mendoza. No one can fay that he has travelled without making acquisitions. Has the Duc d'Orleans also learned to box? I he news from Paris is bad: the commotions increase greatly: and fuch an alarm has spread, that the Queen has called the Marechal de Broglio to the King's closet; he has had several conferences: the report is, that an army will be collected under him. It may be now necessary; but woeful management to have made

July 2. To Meux. Monf. de Guerchy was fo kind as to accompany me to Columiers; I had a letter to Monf. Anveé Dumeé. País Rosoy to Maupertius, through a country chearfully diverlified by woods, and feattered with villages; and fingle farms spread every where as about Nangis. Maupertius seems to have been the creation of the Marquis de Montesquieu, who has here a very fine chateau of his own building; an extensive English garden, made by the Count d'Artois' gardener, with the town, has all been of his own forming. I viewed the garden with pleafure; a proper advantage has been taken of a good command of a stream, and many fine springs which rife in the grounds; they are well conducted, and the whole executed with talte. In the kitchen-garden, which is on the flope of a hill, one of thefe fprings has been applied to excellent use: it is made to wind in many doubles through the whole on a paved bed, forming numerous basons for watering the garden, and might, with little trouble, be conducted alternately to every bed as in Spain. This is a hint of real utility to all those who form gardens on the fides of hills; for watering with pots and pails is a miferable, as well as expensive fuccedaneum to this infinitely more effective method. There is but one fault in this garden, which is its being placed near the house, where there should be nothing but lawn and fcattered trees when viewed from the chateau. The road might be hidden by a judicious use of planting. The road to Columiers is admirably formed of broken stone, like gravel, by the Marquis of Montesquieu, partly at his own expence: Before I finish with this nobleman, let me observe, that he is esteemed by some the second family in France, and by others, who admit his pretensions, even the sirst; he claims from the house of Armagnac, which was undoubtedly from Charlemagne; the present King of France, when he signed some paper relative to this family, that seemed to admit the claim, or refer to it, remarked, that it was declaring one of his subjects to be a better gentleman than himself. But the house of Montmorenci, of which family are the Dukes of Luxembourg and Laval, and the Prince of Robec, is generally admitted to be the first. Mons. de Montesquieu is a deputy in the states, one of the quarante in the French academy, having written several pieces: he is also chief minister to Monsseur, the King's brother, an office that is worth 100,000 livres a year, (4,3751.) Dine with Mons. and Madame Dumeé; conversation here, as in every other town of the country, seems more occupied on the dearness of wheat than on any other circumstance; yesterday was market-day, and a riot ensued of the populace, in spite of the troops, that were drawn up as usual to protect the corn: it rises to 46 livres (21, 3d.) the septier, or half-quarter, and some is fold yet higher. To Meux.

-32 miles. The 3d. Meux was by no means in my direct road; but its district, Brie, is so highly celebrated for fertility, that it was an object not to omit. I was provided with letters for M. Bernier, a confiderable farmer, at Chaucaunin, near Meux; and for M. Gibert, of Neuf Moutier, a confiderable cultivator, whose father and himself had between them made a fortune by agriculture. 'The former gentleman was not at home; by the latter I was received with great hospitality; and I found in him the strongest desire to give me every information I wished. Monf. Gibert has built a very handsome and commodious house, with farming-offices, on the most ample and solid scale. I was pleased to find his wealth, which is not inconfiderable, to have arifen wholly from the plough. He did not forget to let me know, that he was noble, and exempted from all tailles; and that he had the honours of the chace, his father having purchased the charge of Sccretaire du Roi: but he very wisely lives en fermier. His wife made ready the table for dinner, and his bailiff, with the female domestic, who has the charge of the dairy, &c. both dined with us. This is in a true farming style; it has many conveniencies, and looks like a plan of living, which does not promife, like the foppish modes of little gentlemen, to run through a fortune, from false shame and filly pretensions. I can find no other fault with his fystem than having built a house enormously beyond his plan of living, which can have no other effect than tempting fome fuccessor, less prudent than himfelf, into expences that might diffipate all his and his father's favings. In England that would certainly be the case; the danger, however, is not equal in France.

The 4th. To Chateau Thiery, following the course of the Marne. The country is pleasantly varied, and hilly enough to be rendered a constant picture, were it enclosed. Thiery is beautifully situated on the same river. I arrived there by sive o'clock, and wished, in a period so interesting to France, and indeed to all Europe, to see a newspaper. I asked for a cossee house, not one in the town. Here are two parishes, and some thousands of inhabitants, and not a newspaper to be seen by a traveller, even in a moment when all ought to be anxiety.—What stupidity, poverty, and want of circulation! This people hardly deserve to be free; and should there be the least attempt with vigour to keep them otherwise, it can hardly fail of succeeding. To those who have been used to travel amidst the energetic and rapid circulation of wealth, animation, and intelligence of England, it is not possible to describe, in words adequate to one's feelings, the dulness and stupidity of France. I have been to-day on one of their greatest roads, within thirty miles of Paris, yet I have not seen one diligence, and met but a

fingle gentleman's carriage, nor any thing on the road that looked like a gentleman.-

30 miles.

The 5th. To Mareuil. The Marne, about twenty-five rods broad, flows in an arable The country hilly, and parts of it pleasant; from one elevation vale to the right. there is a noble view of the river. Mareuil is the residence of Mons. Le Blanc, of whose husbandry and improvements, particularly in sheep of Spain, and cows of Switzerland, Monf. de Brouffonet had spoken very advantageously. This was the gentleman also on whom I depended for information relative to the famous vineyards of Epernay, that produce the fine Champagne. What therefore was my disappointment, when his tervants informed me that he was nine leagues off on business? Is Madame Le Blanc at home? No, she is at Dormans. My complaining ejaculations were interrupted by the approach of a very pretty young lady, whom I found to be Mademoiselle Le Blanc. Her mamma would return to dinner, her papa at night; and, if I wished to see him, I had better flay. When persuasion takes so pleasing a form, it is not easy to resist it. There is a manner of doing every thing that either leaves it absolutely indifferent or that interests. The unaffected good humour and simplicity of Mademoiselle Le Blanc entertained me till the return of her mama, and made me fay to myfelf, you will make a good farmer's wife. Madame Le Blanc, when the returned, confirmed the native hospitality of her daughter; assured me, that her husband would be at home early in the morning, as the must dispatch a messenger to him on other business. In the evening we fupped with Monf. B. in the fame village, who married Madame Le Blanc's niece: we pass Mareuil, through it, has the appearance of a small hamlet of inconsiderable farmers, with the houses of their labourers; and the sentiment that would arise in most bosoms, would be that of picturing the banishment of being condemned to live in Who would think that there should be two gentlemen's families in it; and that in one I should find Mademoiselle Le Blanc singing to her systrum, and in the other Madame B. young and handsome, performing on an excellent English piano forte? Compared notes of the expences of living in Champagne and Suffolk;—agreed, that 100 louis d'or a year in Champagne, were as good an income as 180 in England. On his return, Monf. Le Blanc, in the most obliging manner, satisfied all my enquiries, and gave me letters for the most celebrated wine districts.

The 7th. To Epernay, famous for its wines. I had letters for Monf. Paretilaine, one of the most considerable merchants, who was so obliging as to enter, with two other gentlemen, into a minute disquisition of the produce and profit of the fine vineyards. The hotel de Rohan here is a very good inn, where I solaced myself with a bottle of excellent vin mousseur for 40s. and drank prosperity to true liberty in France.——12

miles.

The 8th. To Ay, a village not far out of the road to Rheims, very famous for its wines. I had a letter for Monf. Lasnier, who has 60,000 bottles in his cellar, but unfortunately he was not at home. Monf. Dorsé has from 30 to 40,000. All through this country the crop promises miserably, not on account of the great frost, but the

cold weather of last week.

To Rheims, through a forest of five miles, on the crown of the hill, which separates the narrow vale of Epernay from the great plain of Rheims. The first view of that city from this hill, just before the descent, at the distance of about four miles, is magnificent. The cathedral makes a great figure, and the church of St. Remy, terminates the town proudly. Many times I have had such a view of towns in France, but when you enter them, all is a clutter of narrow, crooked, dark, and dirty lanes. At Rheims it is very different: the streets are almost all broad, strait, and well built, equal in the

respect to any I have seen; and the inn, the hotel de Moulinet, is so large and wellferved, as not to check the emotions raifed by agreeable objects, by giving an impulse to contrary vibrations in the bosom of the traveller, which at inns in France is too often the case. At dinner they gave me a bottle also of excellent wine. I suppose fixed air is good for the rheumatifin; I had some writhes of it before I entered Champagne, but the vin mousseux has absolutely banished it. I had letters for Mons. Cadot L'ainé, a confiderable manufacturer, and the possession of a large vineyard, which he cultivates himself; he was therefore a double fund to me. He received me very politely, an-fwered my enquiries, and shewed me his fabric. The cathedral is large, but does not firike me like that of Amiens, yet ornamented, and many painted windows. They shewed me the spot where the kings are crowned. You enter and quit Rheims through fuperb and elegant iron gates: in such public decorations, promenades, &c. French towns are much beyond English ones. Stopped at Sillery, to view the wine press of the Marquis de Sillery; he is the greatest wine farmer in all Champage, having in his own hands one hundred and eighty arpents. Till I got to Sillery, I knew not that it belonged to the husband of Madame de Genlis; but I determined, on hearing that it did, to prefume to introduce myfelf to the Marquis, should he be at home: I did not like to pass the door of Madame de Genlis without seeing her: her writings are too celebrated. La Petite Loge, where I flept, is bad enough indeed, but such a reflection would have made it ten times worse: the absence, however, of both Mons, and Madame quieted both my wishes and anxieties. He is in the states. --- 28 miles.

The 9th. To Chalons, through a poor country and poor crops. M. de Broussonet had given me a letter to Mons. Sabbatier, Secretary to the Academy of Sciences, but he was absent. A regiment passing to Paris, an officer at the inn addressed me in English. He had learned, he said, in America, damme!—He had taken Lord Cornwallis, damme!—Marechal Broglio was appointed to command an army of sifty thousand men near Paris—it was necessary—The tiers étât were running mad—and wanted some wholesome correction;——they want to establish a republic—absurd! Pray, Sir, what did you sight for in America? To establish a republic. What was so good for the Americans, is it so bad for the French? Aye, damme! that is the way the English want to be revenged. It is, to be sure, no bad opportunity. Can the English follow a better example? He then made many enquiries about what we thought and said upon it in England: and I may remark, that almost every person I meet with has the same idea—The English must be very well contented at our consussor. They seel pretty pointedly

what they deferve. _____121 miles.

The 10th. To Ove. Pass Courtiffeau, a small village, with a great church; and though a good stream is here, not an idea of irrigation. Roofs of houses almost flat, with projecting eaves, resembling those from Pau to Bayonne. At St. Menehoud a dreadful tempest, after a burning day, with such a fall of rain, that I could hardly get to Mons. I'Abbé Michel, to whom I had a letter. When I sound him, the incessant safe of lightning would allow me no conversation; for all the semales of the house came into the room for the Abbé's protection I suppose; so I took leave. The vin de Champagne, which is 40s. at Rheims, is 3 livres at Chalons and here, and execrably bad; so there is an end of my physic for the rheumatism.——25 miles.

The 11th. Pass Islets, a town (or rather collection of dirt and dung) of new features, that seem to mark, with the saces of the people, a country not French.—25

miles

The 12th. Walking up a long hill, to ease my mare, I was joined by a poor woman, who complained of the times, and that it was a sad country; on my demanding her reasons,

reasons, she said her husband had but a morsel of land, one cow, and a poor little horse, yet he had a franchar (42 lb.) of wheat, and three chickens, to pay as a quitrent to one Seigneur; and four franchar of oats, one chicken and is, to pay another, befide very heavy tailles and other taxes. She had feven children, and the cow's milk helped to make the foup. But why, instead of a horse, do not you keep another cow? Oh, her husband could not carry his produce so well without a horse; and asses are little used in the country. It was faid, at present, that something was to be done by some great folks for such poor ones, but she did not know who nor how, but God send us better, car les tailles & les droits nous écrasent. - This woman, at no great distance, might have been taken for fixty or feventy, her figure was fo bent, and her face so surrowed and hardened by labour, -but she said she was only twenty eight. An Englishman, who has not travelled, cannot imagine the figure made by infinitely the greater part of the countrywomen in France; it speaks, at the first fight, hard and fevere labour: I am inclined to think, that they work harder than the men, and this united with the more miferable labour of bringing a new race of flaves into the world, destroys absolutely all fyinmetry of person and every feminine appearance. To what are we to attribute this difference in the manners of the lower people in the two king.

doms? To government. ____23 miles.

The 13th. Leave Mar-le Tour at four in the morning: the village herdfinan was founding his horn; and it was droll to fee every door vomiting out its hogs or sheep, and fome a few goats, the flock collecting as it advances. Very poor fleep, and the pigs with mathematical backs, large fegments of fmall circles. They must have abundance of commons here, but, if I may judge by the report of animals carcafes, dreadfully overstocked. To Metz, one of the strongest places in France; pass three drawbridges, but the command of water must give a strength equal to its works. The common garrison is ten thousand men, but there are fewer at present. Waited on M. de Payen, fecretary of the Academy of Sciences; he asked my plan, which I explained; he appointed me at four in the afternoon at the academy, as there would be a scance held; and he promised to introduce me to some persons who could answer my enquiries. I attended accordingly, when I found the academy affembled at one of their weekly meetings. Monf. Payen introduced me to the members, and, before they proceeded to their business, they had the goodness to sit in council on my enquiries, and to refolve many of them. In the Almanach de Trois Evechés, 1789, this academy is faid to have been inflituted particularly for agriculture; I turned to the lift of their honorary members to fee what attention they had paid to the men who. in the present age, have advanced that art. I found an Englishman, Dom Cowley, of London. Who is Dom Cowley? - Dined at the table d'hôte, with feven officers, out of whose mouths, at this important moment, in which conversation is as free as the prefs, not one word iffued for which I would give a straw, nor a subject touched on of more importance, than a coat, or a puppy dog. At tables de hôtes of officers, you have voluble garniture of bawdry or nonfenfe; at those of merchants, a mournful and flupid filence. Take the mass of mankind, and you have more good sense in half an hour in England than in half a year in France. - Government! Again: - all - all - is government.-— 15 miles.

The 14th. They have a cabinet literaire at Metz, fomething like that I described at Nantes, but not on so great a plan; and they admit any person to read or go in and out for a day, on paying 4s. To this I eagerly resorted, and the news from Paris, both in the public prints, and by the information of a gentleman, I found to be interesting. Versailles and Paris are surrounded by troops: thirty-five thousand men are

affembled, and twenty thousand more on the road, large trains of artillery collected, and all the preparations of war. The affembling of fuch a number of troops has added to the fearcity of bread; and the magazines that have been made for their support are not easily by the people distinguished from those they suspect of being collected by monopolitis. This has aggravated their evils almost to madness; so that the confufion and tumult of the capital are extreme. A gentleman of an excellent understand. ing, and apparently of confideration, from the attention paid him, with whom I had fome conversation on the subject, lamented, in the most pathetic terms, the situation of his country; he confiders a civil war as impossible to be avoided. There is not, he added, a doubt but the court, finding it impossible to bring the National Assembly to terms, will get rid of them; a bankruptcy at the same moment is inevitable; the union of fuch confusion must be a civil war; and it is now only by torrents of blood that we have any hope of establishing a freer constitution: yet it must be established; for the old government is rivetted to abuses that are insupportable. He agreed with me entirely, that the propositions of the seance royale, though certainly not sufficiently satisfactory, yet, were the ground for a negociation, that would have fecured by degrees all even that the fword can give us, let it be as fuccefsful as it will. The purfe-the power of the purse is every thing; skilfully managed, with so necessitous a government as ours, it would, one after another, have gained all we wished. As to a war, Heaven knows the event; and if we have fuccefs, fuccefs itself may ruin us; France may have a Cromwell in its bosom, as well as England. Metz is, without exception, the cheapest town I have been in. The table d'hôte is 36s, a head, plenty of good wine included. We were ten, and had two courses and a desert of ten dishes each, and those courses plentiful. The supper is the same; I had mine, of a pint of wine and a large plate of chaudics, in my chamber, for 10s. a horse, hay, and corn 25s. and nothing for the apartment; my expence was therefore 71s. a day, or 2s. 111d.; and with the table d'hôte for supper, would have been but 97s. or 4s. o id.—In addition, much civility and good attendance. It is at the Faifan. Why are the cheap, eft inns in France the best? - The country to Pont a Mousson is all of bold features. -The river Mofelle, which is confiderable, runs in the vale, and the hills on each fide are high. Not far from Metz there are the remains of an ancient aqueduct for conducting the waters of a fpring across the Moselle: there are many arches lest on this fide, with the houses of poor people built between them. At Pont-a-Mousson Mons. Pichon, the sub-delegué of the intendant, to whom I had letters, received me politely, fatisfied my enquiries, which he was well able to do from his office, and conducted me to fee whatever was worth viewing in the town. It does not contain much; the école militaire, for the lons of the poor nobility, also the couvent de Premontré, which has a very fine library, one hundred and feven feet long, and twenty-five bread. I was introduced to the abbot as a perfon who had fome knowledge in agriculture.— 17 miles.

The 15th. I went to Nancy, with great expectation, having heard it reprefented as the prettieft town in France. I think, on the whole, it is not undeferving the character in point of building, direction, and breadth of streets.—Bourdeaux is far more magnificent; Bayonne and Nantes are more lively; but there is more equality in Nancy; it is almost all good; and the public buildings are numerous. The place royale, and the adjoining area are superb. Letters from Paris! all confusion! the ministry removed: Mons. Necker ordered to quit the kingdom without noise. The effect on the people of Nancy was considerable.—I was with Mons. Willemet when his letters arrived, and for some time his house was full of enquirers; all agreed, that

it was fatal news, and that it would occasion great commotions. What will be the refult at Nancy? The answer was in effect the same from all I put this question to: We are a provincial town, we must wait to see what is done at Paris; but every thing is to be feared from the people, because bread is so dear, they are half starved, and are confequently ready for commotion. This is the general feeling; they are as nearly concerned as Paris; but they dare not flir; they dare not even have an opinion of their own till they know what Paris thinks; fo that if a starving populace were not in question, no one would dream of moving. This confirms what I have often heard remarked, that the deficit would not have produced the revolution but in concurrence with the price of bread. Does not this flew the infinite confequence of great cities to the liberty of mankind? Without Paris, I question whether the prefent revolution, which is rapidly working in France, could pollibly have had an origin. It is not in the villages of Syria or Diarbekir that the Grand Signor meets with a murmur against his will; it is at Constantinople that he is obliged to manage and mix caution even with defpotifm. Mr. Willemet, who is demonstrator of botany, shewed me the botanical garden, but it is in a condition that speaks the want of better funds. He introduced me to Monf. Durival, who has written on the vine, and gave me one of his treatifes, and also two of his own on botanical subjects. He also conducted me to Monf. l'Abbé Grandpére, a gentleman curious in gardening, who, as foon as he knew that I was an Englishman, whimsically took it into his head to introduce me to a lady, my countrywoman, who hired, he faid, the greatest part of his house. I remonitrated against the impropriety of this, but all in vain; the Abbé had never travelled, and thought that if he were at the diffance of England from France (the French are not commonly good geographers) he should be very glad to see a Frenchman; and that, by parity of reasoning, this lady must be the same to meet a countryman she never faw or heard of. Away he went, and would not rest till I was conducted into her apartment. It was the Dowager Lady Douglas; the was unaffected, and good enough not to be offended at fuch a flrange intrufion.—She had been here but a few days; had two fine daughters with her, and a beautiful Kamchatka dog; fhe was much troubled with the intelligence her friends in the town had just given her, fince she would, in all probability, be forced to move again, as the news of Monf. Necker's removal, and the new ministry being appointed, would certainly occasion such dreadful tumults, that a foreign family would probably find it equally dangerous and difagreeable, ——18 miles.

The 16th. All the houses at Nancy have tin cave troughs and pipes, which render walking in the firects much more easy and agreeable; it is also an additional confumption, which is politically useful. Both this place and Luneville are lighted in the English manner, instead of the lamps being strung across the streets as in other French towns. Before I quit Nancy, let me caution the unwary traveller, if he is not a great lord, with plenty of money that he does not know what to do with, against the hotel d'Angleterre; a bad dinner, 3 livres, and for the room as much more. A pint of wine and a plate of chaudic 20s, which at Metz was 10s, and in addition, I liked so little my treatment, that I changed my quarters to the hotel de Halle, where, at the table d'hôte, I had the compiny of some agreeable officers, two good courses, and a desert for 36s, with a bottle of wine. The chamber 20s.; for building, however, the hotel d'Angleterre is much superior, and is the first inn. In the evening to Luneville. The

country about Nancy is pleafing. --- 17 miles.

The 17th. Luneville being the refidence of Monf. Lazowski, the father of my much esteemed friend, who was advertised of my journey, I waited on him in the morning;

he received me with not politeness only, but hospitality-with a hospitality I began to think was not to be found on this fide of the kingdom.-From Mareuil hither, I had really been fo unaccustomed to receive any attentions of that fort, that it awakened me to a train of new feelings agreeable enough. - An apartment was ready for me, which I was preffed to occupy, defired to dine, and expected to flay fome days: he introduced me to his wife and family, particularly to M. l'Abbé Lazowski, who, with the most obliging alacrity, undertook the office of shewing me whatever was worth feeing. - We examined, in a walk before dinner, the establishment of the orphans; well regulated and conducted. Luneville wants such establishments, for it has no manufactory, and therefore is very poor; I was affured not lefs than half the population of the place, or ten thousand persons are poor. Luneville is cheap. A cook's wages two, three, or four louis; a maid's, that dreffes hair, three or four louis; a common housemaid, one louis; a common footman, or a house lad, three louis. Rent of a good house fixteen or seventeen louis. Lodgings of four or five rooms, fome of them finall, nine louis. After dinner, wait on M. Vaux dit Pompone, an intimate acquaintance of my friend; here mingled hospitality and politeness also received me; and fo much was I preffed to dine with him to-morrow, that I should certainly flay, were it merely for the pleasure of more conversation with a very sensible and cultivated man, who, though advanced in years, has the talents and good humour to render his company univerfally agreeable: but I was obliged to refuse it, having been out of order all day. Yesterday's heat was followed, after some lightning, by a cold night, and I laid, without knowing it, with the windows open, and caught cold, I suppose, from the information of my bones. I am acquainted with strangers as eafily and quickly as any body, a habit that much travelling can fcarcely fail to give, but to be ill among them would be enuyante, demand too much attention and encroach on their humanity. This induced me to refuse the obliging wishes of both the Mesfrs. Lazowskis, Mons. Pompone, and also of a pretty and agreeable American lady, I met at the house of the latter. Her history is singular, and yet very natural. She was Miss Blake, of New-York; what carried her to Dominica I know not; but the fun did not spoil her complexion: a French officer, Monf. Tibalic, on taking the island, made her his captive, and in turn became hers, fell in love, and married her; brought his prize to France, and fettled her in his native town of Luneville. The regiment, of which he is major, being quartered in a distant province, she complained of feeing her husband not more than for fix months in two years. She has been four years at Luneville; and having the fociety of three children, is reconciled to a fcene of life new to her. Monf. Pompone, who, she affured me, is one of the best men in the world, has parties every day at his house, not more to his own fatisfaction than to her comfort.—This gentleman is another inflance, as well as the major, of attachment to the place of nativity; he was born at Luneville; attended King Stanislaus in some respectable office near his person; has lived much at Paris, and with the great, and had first ministers of state for his intimate friends; but the love of the natale folum brought him back to Luneville, where has lived beloved and respected for many years, surrounded by an elegant collection of books, amongst which the poets are not forgotten, having himself no inconsiderable talents in transfusing agreeable sentiments into pleasing veries. He has fome couplets of his own composition, under the portraits of his friends, which are pretty and easy. It would have given me much pleasure to have fpent fome days at Luneville; an opening was made for me in two houses, where I should have met with a friendly and agreeable reception: but the misfortunes of tra-C C 2

velling are fometimes the accidents that crofs the moments prepared for enjoyment; and at others, the fyttem of a journey inconfittent with the plans of deflined pleasure.

The 18th. To Haming, through an uninteresting country.—28 miles.

The 19th. To Savern, in Alface: the country to Phalibourg, a finall fortified town, on the frontiers, is much the fame in appearance as hitherto. The women in Alface wear straw hats, as large as those worn in England; they shelter the face, and should secure fome pretty country girls, but I have feen none yet. Coming out of Phalfbourg, there are some hovels miscrable enough, yet have chimnies and windows, but the inhabitants in the lowest poverty. From that town to Savern all a mountain of oak timber, the defeent fleep, and the road winding. In Savern I found myfelf to all appearance truly in Germany; for two days pair much tendency to a change, but here not one perion in an hundred has a word of French; the rooms are warmed by floves; the kitchen-hearth is three or four feet high, and various other trifles shew, that you are among another people. Looking at a map of France, and reading hiltories of Louis XIV. never threw his conquest or feizure of Alface into the fame light, which travelling into it did: to crofs a great range of mountains; to enter a level plain, inhabited by a people totally diffinct and different from France, with manners, language, ideas, prejudices, and habits all different, made an impression of the injustice and ambition of such a conduct, much more forcible than ever reading had done: fo much more powerful

are things than words. -- 22 miles.

The 2cth. To Strafbourg, through one of the richeft feenes of foil and cultivation to be met with in France, and exceeded by Flanders only. I arrived at Strabbourg at a critical moment, which I thought would have broken my neck; a detachment of horse, with their trumpets on one fide, a party of infantry, with their drums beating on the other, and a great mob hallooing, frightened my French mare; and I could scarcely keep her from trampling on Mestrs, the tiers étât. On arriving at the inn, hear the interesting news of the revolt of Paris.—The Gardes Françoises joining the people; the little dependence on the rest of the troops; the taking of the Bassile; and the inflitution of the milice bourgeoife; in a word, of the absolute overthrow of the old government. Every thing being now decided, and the kingdom in the hands of the affembly, they have the power to make a new conflitution, such as they think proper; and it will be a great spectacle for the world to view, in this entightened age, the repretatives of twenty-five millions of people fitting on the conftruction of a new and better order and fabric of liberty, than Europe has yet offered. It will now be feen, whether they will copy the conflitution of England, freed from its faults, or attempt, from theory, to frame formething absolutely speculative: in the former case, they will prove a blesfing to their country; in the latter, they will probably involve it in inextricable confufions and civil wars, perhaps not in the prefent period, but certainly at fome future one. I hear not of their removing from Verfailles; if they thay there under the controll of an armed mob, they must make a government that will please the mob; but they will, I suppose, be wife enough to move to some central town, Tours, Blois, or Orleans, where their deliberations may be free. But the Parifian spirit of commotion spreads quickly; it is here; the troops, that were near breaking my neck, are employed to keep an eye on the people who shew figns of an intended revolt. They have broken the windows of fome magistrates that are no favourites; and a great mob of them is at this moment affembled, demanding clamorously to have meat at 5s, a pound. They have a cry among them that will conduct them to good lengths,-"Point d'impôt & vivent les étàts."-Waited on Monf. Herman, professor of natural history in the Uni-

verfity here, to whom I had letters: he replied to fome of my questions, and introduced me for others to Monf. Zimmer, who having been in some degree a practitioner, had understanding enough of the subject to afford me some information that was valuable. View the public buildings, and crofs the Rhine passing for some little distance into Germany, but no new features to mark a change; Alface is Germany, and the change great on descending the mountains. The exterior of the cathedral is fine, and the tower fingularly light and beautiful; it is well known to be one of the highest in Europe; commands a noble and rich plain, through which the Rhine, from the number of its islands, has the appearance of a chain of lakes rather than of a river. Monument of Marechal Saxe, &c. &c. I am puzzled about going to Carlfrhue, the refidence of the Margrave of Baden: it was my intention formerly to do it, if ever I were within an hundred miles; for there are some features in the reputation of that sovereign, which made me wish to be there. He fixed Mr. Taylor, of Bifrons, in Kent, whose husbandry I describe in my Eastern Tour, on a large farm; and the economistes in their writings, or rather Physiocratical rubbish, speak much of an experiment he made, which however erroneous their principles might be, marked much merit in the prince. Monf. Herman tells me also, that he has sent a person into Spain to purchase rains for the improvement of wool. I wish he had fixed on somebody likely to understand a good ram, which a professor of botany is not likely to do too well. This botanist is the only person Mons. Herman knows at Carlithue, and therefore can give me no letter thither, and how I can go, unknown to all the world, to the refidence of a fovereign prince, (for Mr. Taylor has left him) is a difficulty apparently infurmountable.—22½ miles.

The 21st. I have spent some time this morning at the cabinet literaire, reading the gazettes and journals that give an account of the transactions at Paris: and I have had fome conversation with several sensible and intelligent men on the present revolution. The spirit of revolt is gone forth into various parts of the kingdom; the price of bread has prepared the populace every where for all forts of violence; at Lyons there have been commotions as furious as at Paris, and the fame at a great many other places: Dauphiné is in arms: and Bretagne in absolute rebellion. The idea is, that the people will, from hunger, be driven to revolt; and when once they find any other means of fubfiftence than that of honest labour, every thing will be to be feared. Of fuch confequence it is to a country, and indeed to every country, to have a good police of corn; a police that shall, by securing a high price to the farmer, encourage his culture enough to fecure the people at the fame time from famine. My anxiety about Carlfrhue is at an end; the Margrave is at Spaw; I shall not therefore think of going. --- Night - I have been witness to a scene curious to a foreigner; but dreadful to Frenchmen that are confiderate. Palling through the fquare of the hotel de ville, the mob were breaking the windows with stones, notwithstanding an officer and a detachment of horse were in the fquare. Perceiving that their numbers not only increased, but that they grew bolder and bolder every moment, I thought it worth flaying to fee what it would end in, and clambered on to the roof of a row of low stalls opposite to the building, against which their malice was directed. Here I beheld the whole commodiously. Finding that the troops would not attack them, except in words and menaces, they grew more violent, and furiously attempted to beat the doors in pieces with iron crows; placing ladders to the windows. In about a quarter of an hour, which gave time for the affembled magistrates to escape by a back door, they burst all open, and entered like a torrent with an universal front of the spectators. From that minute a shower of casements, fallies, flutters, chairs, tables, tophas, books, papers, pictures, &c. rained inceffantly from all the windows of the house, which is seventy or eighty feet long, and which

which was then fucceeded by tiles, skirting boards, bannisters, frame-work, and every part of the building that force could detach. The troops, both horse and foot, were quiet spectators. They were at first too few to interpose, and, when they became more numerous, the mitchief was too far advanced to admit of any other conduct than guarding every avenue around, permitting none to go to the fcene of action, but letting every one that pleafed retire with his plunder; guards being at the fame time placed at the doors of the churches, and all public buildings. I was for two hours a spectator at different places of the fcene, fecure myfelf from the falling furniture, but near enough to fee a fine youth crushed to death by fomething, as he was handing plunder to a woman, I suppose his mother, from the horror that was pictured in her countenance. I remarked feveral common foldiers, with their white cockades, among the plunderers, and infligating the mob even in fight of the officers of the detachment. There were amongft them people fo decently dreffed, that I regarded them with no fmall furprife: —they destroyed all the public archives; the streets for some way around strewed with papers; this has been a wanton mischief; for it will be the ruin of many families unconnected with the magistrates.

The 22d. To Scheleftadt. At Strafbourg, and the country I passed, the lower ranks of women wear their hair in a toupee in front, and behind braided into a circular plait, three inches thick, and most curiously contrived to convince one that they rarely pass a comb through it. I could not but picture them as the nidus of living colonies, that never approached me (they are not burthened with too much beauty), but I scratched my head from sensations of imaginary itching. The moment you are out of a great town all in this country is German; the inns have one common large room, many tables and cloths ready spread, where every company dines; gentry at some, and the poor at others. Cookery also German: schnitz is a dish of bacon and fried pears; has the appearance of an infamous mess; but I was surprized, on tasting, to find it better than passable. At Schelestadt I had the pleasure of finding the Count de la Rochesoucauld, whose regiment (of Champagne), of which he is second major, is quartered here. No attentions could be kinder than what I received from him; they were the renewal of the numerous ones I was in the habit of experiencing from his family; and he introduced me to a good farmer, from whom I had the intelligence I

wanted.— 25 miles.

The 23d. An agreeable quiet day, with the Count de la Rochefoucauld: dine with the officers of the regiment, the Count de Loumené, the colonel, nephew to the Cardinal de Loumené, present. Sup at my friend's lodgings; an officer of infantry, a Dutch gentleman, who has been much in the East Indies, and speaks English. This has been a refreshing day; the society of well informed people, liberal, polite, and com-

municative, has been a contrast to the sombre stupidity of tables d'hôtes.

The 24th. To Ifenheim, by Colmar. The country is in general a dead level, with the Voge mountains very near to the right; those of Suabia to the left; and there is another range very dislant, that appears in the opening to the fouth. The news at the table d'hôte at Colmar curious, that the Queen had a plot, nearly on the point of execution, to blow up the National Assembly by a mine, and to march the army instantly to massacre all Paris. A French officer present presumed but to doubt of the truth of it, and was immediately overpowered with numbers of tongues. A deputy had written the news; they had seen the letter, and not a hesitation could be admitted: I strennously contended, that it was folly and nonsense, a mere invention to render persons odious who, for what I knew, might deserve to be so, but certainly not by such means; if the angel Gabriel had descended and taken a chair at table to convince them, it would not have

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The 25th. From Henheim, the country changes from the dead flat, to pleafant views and inequalities, improving all the way to Befort, but neither feattered houses nor inclofures. Great riots at Befort:--last night a body of mob and peasants demanded of the magistrates the arms in the magazine, to the amount of three or four thousand stands; being refused, they grew riotous, and threatened to set fire to the town, on which the gates wereflut; and to-day the regiment of Bourgogne arrived for their protection. Monf. Necker passed here to-day in his way from Basse to Paris, escorted by fifty Bourgeois horsemen, and through the town by the music of all the troops. But the most brilliant period of his life is past; from the moment of his reinstatement in power to the assembling of the states, the fate of France, and of the Bourbons, was then in his hands; and whatever may be the result of the present confusions they will, by posterity, be attributed to his conduct, fince he had unquestionably the power of affembling the states in whatever form he pleased: he might have had two chambers, three or one; he might have given what would unavoidably have melted into the conflitution of England; all was in his hands; he had the greatest opportunity of political architecture that ever was in the power of man: the great legislators of antiquity never possessed fuch a moment: in my opinion he missed it completely, and threwthat to the chance of the winds and waves, to which he might have given impulse, direction, and life. I had letters to Monf. de Bellonde, commissaire de Guerre; I sound him alone: he asked me to sup, faying he should have some persons to meet me who could give me information. On my returning, he introduced me to Madame de Bellonde, and a circle of a dozen ladies, with three or four young officers, leaving the room himself to attend Madame, the princess of something, who was on her slight to Switzerland. I wished the whole company very cordially at a great distance, for I faw, at one glance, what fort of information I should have. There was a little coterie in one corner liftening to an officer's detail of leaving Paris. This gentleman informed us, that the Count d'Artois, and all the princes of the blood, except Monfieur, and the Duke d'Orleans, the whole connection of Polignac, the Marechal de Broglio, and an infinite number of the first nobility had fled the kingdom, and were daily followed by others; and laftly, that the King, Queen, and royal family, were in a fituation at Verfailles really dangerous and alarming, without any dependence on the troops near them, and, in fact, more like prifoners than free. Here is, therefore, a revolution effected by a fort of magic; all powers in the realm are definoted but that of the commons; and it now will remain to fee what fort of architects they are at rebuilding an edifice in the place of that which has been thus marvelloufly tumbled in ruins. Supper being announced, the company quitted the room, and as I did not push myself forward, I remained at the rear till I was very whimfically alone; I was a little flruck at the turn of the moment, and did not advance when I found myfelf in fuch an extraordinary fituation, in order to fee whether it would arrive at the point it did. I then, finiling, took my hat, and walked tairly out of the house. I was, however, overtaken below; but I talked of business or pleafure -or of fomething, or nothing - and hurried to the inn. I should not have related this, if it had not been at a moment that carried with it its apology: the anxiety and distraction of the time must fill the head, and occupy the attention of a gentleman; - and, as to ladies, what can French ladies think of a man who travels for the plough?

The 26th. For twenty miles to Lifle fur Daube, the country nearly as before; but after that, to Baumes les Dames, it is all mountaineus and rocky, much wood, and many pleafing feenes of the river flowing beneath. The whole country is in the greatest agitation;

agitation; at one of the little towns I passed, I was questioned for not having a cockade of the tiers étât. They faid it was ordained by the tiers, and if I were not a Seigneur, I ought to obey. But suppose I am a Seigneur, what then, my friends?-What then? they replied sternly, why, be hanged; for that most likely is what you deferve. It was plain this was no moment for joking, the boys and girls began to gather, whose assembling has every where been the preliminaries of mischief; and if I had not declared myfelf an Englishman, and ignorant of the ordinance, I had not efcaped very well. I immediately bought a cockade, but the huffey pinned it into my hat fo loofely, that before I got to Lifle, it blew into the river, and I was again in the fame danger. My affertion of being English would not do. I was a Seigneur, perhaps in difguife, and without doubt a great rogue. At this moment a prieft came into the ffreet with a letter in his hand: the people immediately collected around him, and he then read aloud a detail from Befort, giving an account of M. Necker's passing, with some general scatures of news from Paris, and assurances that the condition of the people would be improved. When he had finished, he exhorted them to abstain from all violence; and affured them, they must not indulge themselves with any ideas of impolitions being abolished; which he touched on as if he knew that they had gotten fuch notions. When he retired, they again furrounded me, who had attended to the letter like others; were very menacing in their manner; and expressed many suspicions: I did not like my fituation at all, especially on hearing one of them fay that I ought to be fecured till fomebody would give an account of me. I was on the fleps of the inn, and begged they would permit me a few words; I affured them that I was an English traveller, and to prove it, I defired to explain to them a circumstance in English taxation, which would be a fatisfactory comment on what Monfieur l'Abbé had told them, to the purport of which I could not agree. He had afferted, that the impositions must and would be paid as heretofore: that the impositions must be paid was certain, but not as heretofore, as they might be paid as they were in England. "Gentlemen, we have a great number of taxes in England, which you know nothing of in France; but the tiers étât, the poor do not pay them: they are laid on the rich; every window in a man's house pays; but if he has no more than six windows, he pays nothing; a Seigneur, with a great estate, pays the vingtiemes and tailles, but the little proprietor of a garden pays nothing; the rich for their horses, their voitures, their fervants, and even for liberty to kill their own partridges, but the poor farmer nothing of all this; and what is more, we have in England a tax paid by the rich for the relief of the poor; hence the affertion of Monfieur l'Abbé, that because taxes existed before they must exist again, did not at all prove that they must be levied in the same manner; our English method seemed much better." There was not a word of this difcourse they did not approve of; they seemed to think that I might be an honest fellow, which I confirmed by crying, "vive leticrs, fans impositions," when they gave me a bit of a huzza, and I had no more interruption from them. My miferable French was pretty much on a par with their patois. I got, however, another cockade, which I took care to have fo fattened as to lofe it no more. I do not like travelling in fuch an unquiet and fermenting moment; one is not fecure for an hour beforehand.

The 27th. To Befançon; the country mountain, rock, and wood, above the river; fome feenes are fine. I had not arrived an hour before I faw a peafant pass the inn on horseback, followed by an officer of the garde burgeoise, of which there are twelve hundred here, and two hundred under arms, and his party-coloured detachment, and these by some infantry and cavalry. I asked why the militia took the pas of the King's

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troops? "For a very good reason, they replied, the troops would be attacked and knocked on the head, but the populace will not resist the militia." This peasant, who is a rich proprietor, applied for a guard to protect his house, in a village where there is much plundering and burning. The mischiefs which have been perpetrated in the country, towards the mountains and Vefoul, are numerous and shocking. Many chateaus have been burnt, others plundered, the seigneurs hunted down like wild beasts, their wives and daughters ravished, their papers and titles burnt, and all their property destroyed; and these abominations not inflicted on marked persons, who were odious for their former conduct or principles, but an indifcriminating blind rage for the love of plunder. Robbers, galley-flaves, and villains of all denominations, have collected and infligated the peafants to commit all forts of outrages. Some gentlemen at the table d'hôte informed me, that letters were received from the Maconois, the Lyonois, Auvergne, Dauphiné, &c. and that fimilar commotions and mischiefs were perpetrating every where; and that it was expected they would pervade the whole kingdom. The backwardness of France is beyond crediblity in every thing that pertains to intelligence. From Strafbourg hither, I have not been able to see a newspaper. Here I asked for the Cabinet Literaire? None. The gazettes? At the coffee-house. Very easily replied; but not so easily found. Nothing but the Gazette de France; for which, at this period, a man of common fense would not give one sol. To four other coffee-houses, at some no paper at all, not even the Mercure; at the Cassé Militaire, the Courier de l'Europe a fortnight old; and well-dressed people are now talking of the news of two or three weeks past, and plainly by their discourse know nothing of what is passing. The whole town of Befancon has not been able to afford me a fight of the Journal de Paris, nor of any paper that gives a detail of the transactions of the states; yet it is the capital of a province, large as half a dozen English counties, and containing twentyfive thousand souls-and, strange to say! the post coming in but three times a week. At this eventful moment, with no licence, nor even the least restraint on the press, not one paper established at Paris for circulation in the provinces, with the necessary steps taken by affiche, or placard, to inform the people in all the towns of its establishment. For what the country knows to the contrary, their deputies are in the Baftile, instead of the Bastile being razed; so the mob plunder, burn, and destroy, in complete ignorance: and yet, with all these shades of darkness, this universal mass of ignorance, there are men every day in the states, who are pussing themselves off for the first nation in Europe! the greatest people in the universe! as if the political juntos, or literary circles of a capital constituted a people; instead of the universal illumination of knowledge, acting by rapid intelligence on minds prepared by habitual energy of reasoning, to receive, combine, and comprehend it. That this dreadful ignorance of the mass of the people, of the events that most intimately concern them, arises from the old government, no one can doubt; it is, however, curious to remark, that if the nobility of other provinces are hunted like those of Franche Comté, of which there is little reason to doubt, that whole order of men undergo a proscription, and fuffer like sheep, without making the least effort to resist the attack. This appears marvellous, with a body that have an army of one hundred and fifty thousand men in their hands; for though a part of those troops would certainly disobey their leaders, yet let it be remembered, that out of the forty thousand, or possibly one hundred thoufand nobleffe of France, they might, if they had intelligence and union amongst themfelves, fill half the ranks of more than half the regiments of the kingdom, with men who have fellow-feelings and fellow-fufferings with themselves; but no meetings, no affociations among them; no union with military men; no taking of refuge in the VOL. IV. D D

ranks of regiments to defend or avenge their cause; fortunately for France, they fall without a struggle, and die without a blow. That universal circulation of intelligence, which in England transmits the least vibration of feeling or alarm, with electric sensitity, from one end of the kingdom to another, and which unites in bands of connection men of similar interests and situations, has no existence in France. Thus it may be said, perhaps with truth, that the sall of the King, court, lords, nobles, army, church, and parliaments, proceeds from a want of intelligence being quickly circulated, consequently from the very effects of that thraddom in which they held the people: it

The 28th. At the table d'hôte last night a person gave an account of being stopped at Salius for want of a paffport, and fuffering the greatest inconveniences; I found it neceffary, therefore, to demand one for myfelf, and went accordingly to the Bureau; but went in vain: this was an air veritablement d'un commis. - Thete paffports are new things from new men, in new power, and thew that they do not bear their new honours too meckly. Thus it is impossible for me, without running my head against a wall, to vifit the Salins or Arbois, where I have a letter from M. de Brouflonet, but I must take my chance and get to Dijon as fast as I can, where the president de Virly knews me, having from fome days at Bradfield, unless indeed being a president and a no bleman, he has been knocked on the head by the tiers ctat. At night to the play; milicrable performers; the theatre, which has not been built many years, is heavy; the arch that parts the stage from the house is like the entrance of a cavern, and the line of the amphitheatre, that of a wounded eel; I do not like the air and manners of the people here. The mufic, and bawling, and fqueaking of l'Epreuve Villageoife of Gritty, which is wretched, had no power to put me in better humour. I will not take leave of this place, to which I never defire to come again, without faying that they have a fine promenade; and that Monfieur Arthau!, the arpenteur, to whom I applied for information without any letter of recommendation, was liberal and polite, and anfwered my inquiries fatisfactority.

The 19th. To Orechamp the country is bold and rocky, with fine woods, and yet it is not agreeable; it is like many men that have estimable points in their characters, and yet we cannot love them. Poorly cultivated too. Coming out of St. Veté, a pretty riant landskip of the river doubling through the vale, enlivened by a village and some scattered houses; the most pleasing view I have seen in Franche Comté.

23 miles.

The 30th. The mayor of Dole is made of as good stuff as the notary of Besançon; he would give no passport; but as he accompanied his results with neither airs nor graces, I let him pass. To avoid the cent n le, I went round the town. The country to Auxonne is cheerful. Cross the Soane at Auxonne; it is a fine river, through a region of flat needow of beaut sulverdure; commons for great herds of cattle; vastly shooded, and the hay-cocks under water. To Dijon is a fine country, but wants wood. My passport demanded at the pass; and as I had none, two bourgeois musqueteers conducted me to the hotel de ville, where I was questioned, but sinding that I was known at Dijon, they let me go to my inn. Out of luck; Monsseur de Virly, on whom I most depended for Dijon, is at Bourbon le Bains, and Monsseur de Morveau, the celebrated chemist, who I expected would have had letters for me, had none, and though he received me very politely, when I was forced to announce mysself as his brother in the Royal Society of London, yet I fit very awkwardly; however, he desired to see me again next morning. They teil me here, that the intendant is fled; and that the Prince of Condé, who is governor of Burgundy, is in Germany;

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they positively affert, and with very little ceremony, that they would both be hanged. if they were to come hither at prefent; such ideas do not mark too much authority in the milice burgeoife, as they have been inflituted to ftop and prevent hanging and plundering. They are too weak, however, to keep the peace; the licence and spirit of depredation, of which I heard to much in croffing Franche Compté, has taken place, but not equally in Burgundy. In this inn, la Ville de Lyon, there is at present a gentleman, unfortunately a feigneur, his wife, family, three fervants, an infant but a few months old, who escaped from their flaming chateau half naked in the night; all their property loft except the land itself; and this family valued and esteemed by the neighbours, with many virtues to command the love of the poor, and no oppressions to provoke their enmity. Such abominable actions must bring the greatest detestation to the cause from being unnecessary; the kingdom might have been settled in a real system of liberty, without the regeneration of fire and fword, plunder and bloodfhed. Three hundred bourgeois mount guard every day at Dijon, armed, but not paid at the expence of the town: they have also fix pieces of cannon. The noblesse of the place, as the only means of fafety, have joined them-fo that there are croix de St. Louis in the ranks. The palais des états here, is a large and splendid building, but not striking proportionably to the mass and expence. The arms of the Prince of Condé are predominant; and the great falon is called the Salle à manger de Prince. A Dijon artist has painted the battle of Seniff, and the grand Condé thrown from his horfe, and a cieling, both well executed. Tomb of the Duke of Bourgogne, 1404. A picture by Reubens at the Chartreuse. They talk of the house of Mons, de Montigdy, but not shewn, his sister being in it. Dijon, on the whole, is a handsome town; the street though old built, are wide and very well paved, with the addition, uncommon in France, of trottoirs.——28 miles.

The 31st. Waited on Mons. de Morveau, who has, most fortunately for me, received, this morning, from Mons de Virly, a recommendation of me, with four letters from Monf. de Broussonet; but Monf. Vaudrey, of this place, to whom one of them is addressed, is absent. We had some conversation on the interesting topic to all philosophers, phlogiston; Mons de Morveau contends vehemently for its nonexistence; treats Dr. Priestley's last publication as wide of the question; and declared, that he confiders the controverfy as much decided as the question of liberty is in France. He shewed me part of the article air in the New Encyclopædia by him, to be published soon; in which work, he thinks he has, beyond controversy, established the truth of the doctrine of the French chymists of its non-existence. Mons, de Morveau requested me to call on him in the evening to introduce me to a learned and agreeable lady; and engaged me to dine with him to-morrow. On leaving him I went to fearch coffee-houses; but will it be credited, that I could find but one in this capital of Burgundy, where I could read the newspapers?—At a poor little one in the square, I read a paper, after waiting an hour to get it. The people I have found every where defirous of reading newspapers; but it is rare that they can gratify themselves: and the general ignorance of what is palling may be collected from this, that I found nobody at Dijon had heard of the riot at the town-house of Strasbourg; I described it to a gentleman, and a party collected around me to hear it; not one of them had heard a fyllable of it, yet it is nine days fince it happened; had it been nineteen, I queftion whether they would but just have received the intelligence; but, though they are flow in knowing what has really happened, they are very quick in hearing what is impeffible to happen. The current report at present, to which all possible credit is given, is, that the Queen has been convicted of a plot to poison the King and Mon-D D 2

fieur, and give the regency to the Count d'Artois; to set fire to Paris, and blow up the Palais Royal by a mine! - Why do not the feveral parties in the states cause papers to be printed, that shall transmit their own sentiments and opinions only, in order that no man in the nation, arranged under the same standard of reasoning, may want the facts that are necessary to govern his arguments, and the conclusions that great talents have drawn from those facts? The King has been advised to take several steps of authority against the states, but none of his ministers have advised the establishment of journals, and their speedy circulation, that should undeceive the people in those points his enemies have misrepresented. When numerous papers are published in opposition to each other, the people take pains to sift into and examine the truth; and that inquifitiveness alone-the very act of searching, enlightens them; they become informed, and it is no longer easy to deceive them. At the table d'hôte three only, myself, and two noblemen, driven from their estates, as I conjecture by their conversation, but they did not hint at any thing like their houses being burnt. Their description of the state of that part of the province they come from, in the road from Langres to Gray, is terrible; the number of chateaus burnt not confiderable, but three in five plundered, and the possessors driven out of the country, and glad to save their lives. One of these gentlemen is a very fensible well informed man; he confiders all rank, and all the rights annexed to rank, as destroyed in fact in France; and that the leaders of the National Affembly having no property, or very little themfelves, are determined to attack that also, and attempt an equal division. The expectation is gotten among many of the people; but whether it take place or not, he confiders Franc: as absolutely ruined. That, I replied, was going too far, for the destruction of rank did not imply ruin. "I call nothing ruin," he replied, "but a general and confirmed civil war, or diffmemberment of the kingdom; in my opinion, both are inevitable; not perhaps this year, or the next, or the year after that, but whatever government is built on the foundation now laying in France, cannot stand any rude shocks; an unsuccessful or a successful war will equally destroy it,"—He spoke with great knowledge of historical events, and drew his political conclusions with much acumen. I have met with very few fuch men at tables d'hôtes. It may be believed. I did not forget M. de Morveau's appointment. He was as good as his word; Madame Picardet is as agreeable in conversation as she is learned in the closet; a very pleasing unaffected woman; she has translated Scheele from the German, and a part of Mr. Kirwan from the English; a treasure to M. de Morveau, for she is able and willing to converse with him on chymical subjects, and on any others that terid either to instruct or please. I accompanied them in their evening's promenade. She told me, that her brother, Monf. de Poule, was a great farmer, who had fown large quanties of fainfoin, which he used for fattening oxen; she was forry he was engaged fo closely in the municipal business at present, that he could not attend me to his farm.

August 1. Dined with Mons. de Morveau by appointment; Mons. Professeur Chaufée, and Mons. Picardet of the party. It was a rich day to me; the great and just
reputation of Mons. de Morveau, for being not only the first chymist of France, but
one of the greatest that Europe has to boost, was alone sufficient to render his company interesting; but to find such a man void of affectation; free from those airs of superiority which are sometimes sound in celebrated characters, and that reserve which
oftener throws a veil over their talents, as well as conceals their desiciencies for which
it is intended—was very pleasing. Mons. de Morveau is a lively, conversable, eloquent man, who, in any station of life, would be sought as an agreeable companion.

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on. ven Even in this eventful moment of revolution, the conversation turned almost entirely on chymical subjects. I urged him, as I have done Dr. Priestley more than once, and Monf. La Voisier also, to turn his enquiries a little to the application of his science to agriculture; that there was a fine field for experiments in that line, which could scarcely fail of making discoveries; to which he affented; but added, that he had no time for fuch enquiries: it is clear, from his conversation, that his views are entirely occupied by the non-existence of phlogiston, except a little on the means of establishing and enforcing the new nomenclature. While we were at dinner a proof of the New Encyclopædia was brought, the chymical part of which work is printed at Dijon, for the convenience of Monf. de Morveau. I took the liberty of telling him, that a man who can devife the experiments which shall be most conclusive in afcertaining the questions of a science, and has talents to draw all the useful conclusions from them, should be entirely employed in experiments, and their register; and if I were king or minister of France, I would make that employment so profitable to him, that he should do nothing else. He laughed, and asked me, if I were such an advocate for working, and fuch an enemy to writing, what I thought of my friend Dr. Priestley? And he then explained to the two other gentlemen that great philosopher's attention to metaphysics, and polemic divinity. If an hundred had been at table, the fentiment would have been the same in every bosom. Monf. M. spoke, however, with great regard for the experimental talents of the Doctor, as indeed who in Europe does not? I afterwards reflexed on Monf. de Morveau's not having time to make experiments that should apply chymistry to agriculture, yet having plenty of it for writing in so voluminous a work as Pankouck's. I lay it down as a maxim, that no man can establish or support a reputation in any branch of experimental philosophy, such as shall really descend to posterity, otherwise than by experiment; and that commonly the more a man works, and the less he writes the better, at least the more valuable will be his reputation. The profit of writing has ruined that of many (those who know Monf. de Morveau will be very fure I am far enough from having him in my eye; his fituation in life puts it out of the question); that compression of materials, which is luminous; that brevity which appropriates facts to their destined points, are alike inconfistent with the principles that govern all compilations; there are able and respecttable men now in every country for compiling; experimenters of genius should range themselves in another class. If I were a sovereign, and capable consequently of rewarding merit, the moment I heard of a man of real genius engaged in fuch a work I would give him double the bookfeller's price to let it alone, and to employ himfelf in paths that did not admit a rival at every door. There are who will think that this opinion comes oddly from one who has published so many books as I have; but I hope it will be admitted, to come naturally at least from one who is writing a work from which he does not expect to make one penny, who, therefore, has ftronger motives to brevity than temptations to prolixity. The view of this great chymist's laboratory will shew that he is not idle: -it consists of two large rooms, admirably furnished indeed. There are fix or feven different furnaces, (of which Macquer's is the most powerful,) and fuch a variety and extent of apparatus, as I have feen no where elfe, with a furniture of specimens from the three kingdom, as looks truly like business. There are little writing desks, with pens and paper, scattered every where, and in his library also, which is convenient. He has a large course of eudiometrical experiments going on at present, particularly with Fontana's and Volta's cudiometers. He seems to think, that eudiometrical trials are to be depended on: keeps his nitrous air, in quart bottles, stopped with common corks, but reversed; and that the air is always

the fame, if made from the fame materials. A very fimple and elegant method of ascertaining the proportion of vital air he explained to us, by making the experiment : putting a morfel of phosphorus into a glass retort, confined by water or mercury, and inflaming it, by holding a bougie under it. The diminution of air marks the quantity that was vital on the antiphlogistic doctrine. After one extinction, it will boil, but not enflame. He has a pair of feales made at Paris, which, when loaded with three thoufand grains, will turn with the twentieth part of one grain; an air pump, with glass barrels, but one of them broken and repaired; the Count de Buffon's fyitem of burning lens; an abforber; a respirator, with vital air in a jar on one side, and lime water in another; and abundance of new and most ingenious inventions for facilitating enquiries in the new philosophy of air. These are so various, and at the same time so well contrived to answer the purpose intended, that this species of invention seems to be one very great and effential part of Monf. de Morveau's merit; I with he would follow Dr. Priestley's idea of publishing his tools, it would add not inconsiderably to his great and well earned reputation, and at the fame time promote the enquiries he engages in amongst all other experimenters. M. de Morveau had the goodness to accompany me in the afternoon to the Academy of Sciences: they have a very handfome falon, ornamented with the bufts of Dijon worthies; of fuch eminent men as this city has produced, Boffuet-Fevret - De Broffes-De Crebillon-Pyron-Bonhier -Rameau-and lastly, Buffon; and some future traveller will doubtless see here. that of a man inferior to none of these, Mons. de Morveau, by whom I had now the honour of being conducted. In the evening we repaired again to Madame Picardet. and accompanied her promenade: I was pleafed, in conversation on the present disturbances of France, to hear Monf. de Morveau remark, that the outrages committed by the peafants arofe from their defects of lumieres. In Dijon it had been publicly recommended to the curées to enlighten them fomewhat politically in their fermons, but all in vain, not one would go out of the usual routine of his preaching. - Quere, Would not one newspaper enlighten them more than a score of priests? I asked Mons. de Morveau, how far it was true that the chateaus had been plundered and burnt by the peafan's alone; or whether by those troops of brigands, reported to be formidable? He affured me, that he has made thrick enquiries to afcertain this matter, and is of opinion, that all the violences in this province, that have come to his knowledge, have been committed by the peafants only; and much has been reported of brigands, but nothing proved. At Befançon I heard of eight hundred; but how could a troop of eight hundred banditti march through a country, and leave their existence the least questionable ?—as ridiculous as Mr. Baye's army incog.

The 2d. To Beaune; a range of hills to the right under vines, and a flat plain to the left, all open, and too naked. At the little infignificant town of Nuys, forty men mount guard every day, and a large corps at Beaune. I am provided with a paffport from the Mayor of Dijon, and a flaming cockade of the tiers étât, and therefore hope to avoid difficulties; though the reports of the riots of the peafants are fo formidable, that it feems impossible to travel in falety. Stop at Nuys for intelligence concerning the vineyards of this country, so famous in France, and indeed in all Europe; and examine the Clos de Voujaud, of one hundred journaux, walled in, and belonging to a convent of Bernardine Monks.—When are we to find these fellows chusing badly ? The spots they appropriate shew what a righteous attention they give to things of the

fpirit,---22 miles.

[•] Sold fince by the Assembly for 1,140,600 livres, or 500l. sterling, per journal.

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The 3d. Going out of Chagnie, where I quitted the great Lyons road, pass by the canal of Chaulais, which goes on very poorly; it is a truly useful undertaking, and therefore left undone; had it been for boring cannon, or coppering men of war, it would have been sinished long ago. To Monteen's a disagreeable country; singular in its features. It is the feat of one of Mons. Weelkainsong's establishments for casting and boring cannon: I have already described one near Nantes. The French say, that this active Englishman is brother-in-law of Dr. Priestly, and therefore a friend of mankind; and that he taught them to bore cannon in order to give liberty to America. The establishment is very considerabe; there are from five hundred to six hundred men employed, besides colliers; sive steam engines are erected for giving the blalls, and for boring; and a new one building—I conversed with an Englishman who works in the glass-house, in the crystal branch; there were once many, but only two are left at profest: he companied of the country, saying there was nothing good in it but wine and brandy; et which things I question not but he makes a sufficient use.——25 miles.

The 4th, By a miferable country most of the way, and through hideous roads to Autun. The first seven or eight miles the agriculture quite contemptible. From thence to Autun all, or nearly all, inclosed, and the first so for many miles. From the hill before Autun an immense view down on that town, and the flat country of the Bourbonnois for a great extent.—View at Autun the temple of Janus—the walls—the cathedral—the abbey. The reports here of brigands, and burning and plundering, are as numerous as before; and when it was known in the inn that I came from Burgundy and Franche Compté, I had eight or ten people introducing themselves, in order to ask for news. The rumour of brigands here increased to one thousand six hundred strong. They were much surprised to find that I gave no credit to the existence of brigands, as I was well persuaded, that all the outrages that had been committed, were the work of the peasants only, for the sake of plundering. This they uad no conception of, and quoted a lit of chateaus burnt by them; but on analyting these reports, they plainly

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The 5th. The extreme heat of yesterday made me severish; and this morning I waked with a fore throat. I was inclined to waste a day here for the security of my health; but we are all sools in trissing with the things most valuable to us. Loss of time, and vain expense, are always in the head of a man who travels as much en philosophe as I am forced to do. To Maison de Bourgogne, I thought myself in a new world; the road is not only excellent, of gravel, but the country is inclosed and wooded. There are many gentle inequalities, and several ponds that add to the beauty of the country. The weather, since the commencement of August, has been clear, bright, and burnine; too hot to be perfectly agrecable in the middle of the day, but no slies, and therefore I do not regard the heat. This circumstance may, I think, be fixed on as the test. In Languedoc, &c. these heats, as I have experienced, are attended by myriads, and consequently they are tormenting. One had need be sick at this Maison de Bourgogne; a healthy stomach would not easily be filled; yet it is the post-house. In the evening to Lussy, another miserable post-house. Note, through all Burgundy the women wear slapped men's hats, which have not nearly so good an effect as the straw ones of Alsace.—22 miles.

The 6th. To escape the heat, out at four in the morning, to Bourbon Lancy, through the same country inclosed, but wretchedly cultivated, and all ambzingly improveable. If I had a large tract in this country, I think I should not be long in making a fortune; climate, prices, roads, inclosures, and every advantage, except government. All

from Autum to the Loire is a noble field for improvement, not by expensive operations of manuring and draining, but merely by substituting crops adapted to the foil. When I fee fuch a country thus managed, and in the hands of starving metayers, instead of fat furmers, I know not how to pity the feigneurs, great as their prefent fufferings are. I met one of them, to whom I opened my mind: -he pretended to talk of agriculture, finding I attended to it; and affured me he had Abbé Roziere's corps complet, and he believed, from his accounts, that this country would not do for any thing but rye. I asked him, whether he or Abbé Roxier knew the right end of a plough? He assured me, that the Abbé was un homme de grand merite, beaucoup d'agriculteur. Crofs the Loire by a ferry; it is here the same nasty scene of shingle, as in Touraine. Enter the Bourbonnois; the fame inclosed country, and a beautiful gravel road. At Chavanne le Roi, Monf. Joly, the aubergifte, informed me of three domains (farms) to be fold, adjoining almost to his house, which is new and well built. I was for appropriating his inn at once in my imagination for a farm house, and was working on turnips and clover, when he told me, that if I would walk behind his stable, I might fee, at a small distance, two of the houses; he said the price would be about 50 or 60,000 livres (2,6251.), and would altogether make a noble farm. If I were twenty years younger, I should think feriously of such a speculation; but there again is the folly and deficiency of life; twenty years ago, fuch a thing would, for want of experience, have been my ruin; and, now I have the experience, I am too old for the undertaking. ---- 27 miles.

The 7th. Moulins appears to be but a poor ill built town. I went to the Belle Image, but found it fo bad, that I left, and went to the Lyon d'Or, which is worfe, This capital of the Bourbonnois, and on the great post road to Italy, has not an inn equal to the little village of Chavanne. To read the papers, I went to the coffee-house of Madame Bourgeau, the best in the town, where I found near twenty tables set for company, but, as to a newfpaper, I might as well have demanded an elephant. -Here is a feature of national backwardness, ignorance, stupidity, and poverty! In the capital of a great province, the feat of an intendant, at a moment like the prefent, with a National Assembly voting a revolution, and not a newspaper to inform the people whether Fayette, Mirabeau, or Louis XVI, were on the throne. Companies at a coffee-house, numerous enough to fill twenty tables, and curiofity not active enough to command one paper. What impudence and folly!---Folly in the customers of fuch a house not to infift on half a dozen papers, and all the journals of the affembly; and impudence of the woman not to provide them! Could fuch a people as this ever have made a revolution, or become free? Never, in a thousand centuries! The enlightened mob of Paris, amidst hundreds of papers and publications, have done the whole. I demanded why they had no papers? They are too dear; but she made me pay 24s. for one dish of coffee, with milk, and a piece of butter about the fize of a walnut. It is a great pity there is not a camp of brigands in your coffee room, Madame Bourgeau. Among the many letters for which I am indebted to Monf. Brouffonet, few have proved more valuable than one I had for Monf. l'Abbé de Barus, p.in. cipal of the college of Moulins, who entered with intelligence and animatic a intelligence object of my journey, and took every step that was possible to get me well informed. He carried me to Monf. le Count de Grimau, lieutenant-general of the Balliage, and director of the Society of Agriculture at Moulins, who kept us at dinner. He appears to be a man of confiderable fortune, of information, and knowledge, agreeable and polite. He discoursed w. ' me on the state of the Bourbonnois; and assured me, that estates were rather given as within sold: that the metayers were so miserably poor, it was impossible for them to undivide well. I started some observations on the modes

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which ought to be purfued; but all conversation of that fort is time lost in France. After dinner, M. Grimau carried me to his villa, at a finall distance from the town, which is very prettily fituated, commanding a view of the vale of the Allier. Letters from Paris. which contain nothing but accounts truly alarming, of the violences committed all over the kingdom, and particularly at and in the neighbourhood of the capital. M. Necker's return, which it was expected would have calmed every thing, has no effect at all; and it is particularly noted in the National Affembly, that there is a violent party evidently bent on driving things to extremity: men who, from the violence and conflicts of the moment, find themselves in a position, and of an importance that results merely from public confusion, will take effectual care to prevent the fettlement, order, and peace, which, if established, would be a mortal blow to their consequence: they mount by the ftorm, and would fink in a calm. Among other perfons to whom Moni. l'Abbé Barut introduced me, was the Marquis de Goutte, chef d'escadre of the French fleet, who was taken by Admiral Boscawen at Louisbourg, in 1758, and carried to England, where he learned English, of which he yet retains something. I had mentioned to Mons. l'Abbé Barut, that I had a commission from a person of fortune in England, to look out for a good purchase in France; and knowing that the marquis would fell one of his estates, he mentioned it to him. Mons. de Goutte gave me such a description of it, that I thought, though my time was short, that it would be very well worth bestowing one day to view it, as it was no more than eight miles from Moulins, and, propofing to take me to it the next day in his coach, I readily confented. At the time appointed, I attended the Marquis, with M. l'Abbé Barut, to his chateau of Riaux, which is in the midft of the estate he would sell on such terms, that I never was more tempted to speculate: I have very little doubt but that the perfon who gave me a commission to look out for a purchase, is long fince fickened of the scheme, which was that of a residence for pleasure, by the disturbances that have broken out here: so that I should clearly have the refusal of it myself. It would be upon the whole a more beneficial purchase than I had any conception of, and confirms Monf. de Grimau's affertion, that estates here are rather given away than fold. The chateau is large and very well built, containing two good rooms, either of which would hold a company of thirty people, with three smaller ones on the ground floor; on the second ten bedchambers, and over them good garrets, fome of which are well fitted up; all forts of offices fubilantially erected, and on a plan proportioned to a large family, including barns new built, for holding half the corn of the estate in the straw, and granaries to contain it when threshed. Also a wine press and ample cellaring, for keeping the produce of the vineyards in the most plentiful years. The situation is on the side of an agreeable rising, with views not extensive, but pleasing, and all the country round of the same features I have described, being one of the finest provinces in France. Adjoining the chateau is a field of five or fix arpents, well walled in, about half of which is in culture as a garden, and thoroughly planted with all forts of fruits. There are twelve ponds, through which a small stream runs, sufficient to turn two mills, that let at 1000 livres (431. 158.) a-year. The ponds fupply the proprietor's table amply with fine carp, tench, perch, and eels; and yield besides a regular revenue of 1000 livres. There are twenty arpents of vines that yield excellent white and red wine, with houses for the vignerons; woods more than sufficient to supply the chateau with fuel; and lastly, nine domains or farms let to metayers, tenants at will, at half produce, producing, in cash, 10,5000 livres, (459l. 7s. 6d.) consequently the gross produce, farms, mills, and fish, is 12,500 livres. The quantity of land, I conjecture from viewing it, as well as from notes taken, may be above 3000 arpents or acres, lying all contiguous and near the chateau. The out-EE

goings for those taxes paid by the landlord; repairs, garde de chasse, game-keeper (for here are all the feigneural rights, haute justice, &c.), steward, expences on wine, &c. amount to about 4400 livres, (1921, 108.) It yields therefore net fomething more than 8000 livres (3501.) a year. The price asked is 300,000 livres (13,1251.; but for this price is given the furniture complete of the chateau, all the timber, amounting, by valuation of oak only, to 40,000 livres, (1750l.) and all the cattle on the estate, viz. one thousand sheep, fixty cows, seventy-two oxen, nine mares, and many hogs. Knowing, as I did, that I could, on the fecurity of this effate, borrow the whole of the purchafe-money, I withflood no triffing temptation when I refifted it. The finest climate in France, perhaps in Europe; a beautiful and healthy country; excellent roads; a navigation to Paris; wine, game, fish, and every thing that ever appears on a table, except the produce of the tropics; a good house, a fine garden, ready markets for every fort of produce; and, above all the reft, three thousand acres of inclosed land, capable in a very little time of being, without expence, quadrupled in its produce, altogether formed a picture fufficient to tempt a man who had been five and-twenty years in the conflant practice of the hufbandry adapted to this foil. But the flate of government-the reffibility that the leaders of the Paris democracy might in their wildom abolish property as well as rank; and that in buying an estate I might be purchasing my frare in a civil war-deterred me from engaging at prefent, and induced me to request only that the Marquis would give me the refusal of it, before he fold it to any body elfe. When I have to treat with a person for a purchase, I shall wish to deal with fuch an one as the Marquis de Goutte. He has a physiogmony that pleases me; the ease and politeness of his nation is mixed with great probity and honour; and is not rendered lefs amiable by an appearance of dignity that flows from an ancient and respecta le family. To me he seems a man in whom one might, in any transaction. place implicit confidence. I could have fpent a month in the Bourbonnois, looking at estates to be fold; adjoining to that of M. de Goutte's is another of 270,000 livres purchase, Ballain; Mons. l'Abt é Barut having made an appointment with the proprietor. carried me in the afternoon to fee the chateau and a part of the lands; all the country is the fame foil, and in the fame management. It con'fts of eight farms, flocked with cattle and sheep by the landlord; and here too the pone's yield a regular revenue. Income at prefent 10,000 livres (437l. 108.) a year; price 260,000 livres (11,375l.) and 10,000 livres for wood-twenty five years purchase. Also near St. Poncin another of 400,000 livres, (17,5001.) the woods of which, four hundred and fifty acres produce 5000 hyres a year; eighty acres of vines, the wines fo good as to be fent to Paris; good land for wheat, and much fown; a modern chateau, avec toutes les aifances, &c. And I heard of many others. I conjecture that one of the finell contiguous effates in Europe might at prefent be laid together in the Bourbonaois. And I am further informed, that there are at prefent fix thousand chates to be fold in France; if things go on as they do at prefent, it will not be a quenion of buying effaces, but kinedoms, and France itielf will be under the hammer. I love a full in of policy that infpires fuch confidence as to give a value to land, and that renders men fo comfortable on their effates as to make the fale of them the laft of their ideas. Return to Moulins .-30 miles.

The ooth Took my leave of Moulirs, where effates and farming have driven even Maria and the pupilar from my head, and left me no room for the toub au de Montmore ci; having paid extravagantly for the mud walls, cobweb tapelity, and untavory feents of the Lyon d'Or, I turned my mare towards Chateauneut, on the road to Auvergne. The accompaniment of the river makes the country pleafant. I found the

inn full, bufy, and buftling; Monfeigneur, the bishop, coming to the sete of St. Laurence, patron of the parish here. Asking for the commodite, I was desired to walk into the garden. This has happened twice or thrice to me in France; I did not before find out that they were such good cultivators in this country; I am not well made for dispensing this fort of fertility; but my lord the bishop and thirty fat priests will, after a dinner that has employed all the cooks of the vicinity, doubtless contribute amply to the amelioration of the lettuces and onions of Mons. le Maitre de la Poste. To St.

Poncin.---30 miles.

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The 11th. Early to Riom, in Auvergne. Near that town the country is interesting; a fine wooded vale to the left, every where bounded by mountains; and those nearer to the right of an interesting outline. Riom, part of which is pretty enough, is all volcanic; it is built of lava from the quarries of Volvic, which are highly curious to a naturalist. The level plain, which I passed in going to Clermont, is the commencement of the famous Limagne of Auvergne, afferted to be the most fertile of all France; but that is an error, I have feen richer land in both Flanders and Normandy. plain is as level as a still lake; the mountains are all volcanic, and consequently interefling. Pass a scene of very fine irrigation, that will strike a farming eye, to Mont Ferrand, and after that to Clermont. Riom, Ferrand, and Clermont, are all built, or rather perched, on the tops of rocks. Clermont is in the midft of a most curious country, all volcanic; and is built and paved with lava; much of it forms one of the worlt built, dirtieft, and most stinking places I have met with. There are many streets that can, for blackness, dirt, and ill Icents, only be represented by narrow channels cut in a night dunghill. The contention of naufeous favours, with which the air is impregnated, when brifk mountain gales do not ventilate these excrementitious lanes, made me envy the nerves of the good people, who, for what I know, may be happy in them. It is the fair, the town full, and the tables d'hôtes crowded. ____25 miles.

The 12th. Clermont is partly free from the reproach I threw on Moulins and Befancon, for there is a falle à lecture at a Monf. Bovares', a bookfeller, where I found several newspapers and journals; but at the coffee-house I enquired for them in vain: they tell me also, that the people here are great politicians, and attend the arrival of the courier with impatience. The confequence is, there have been no riots; the most ignorant will always be the readiest for mischief. The great news just arrived from Paris, of the utter abolition of tythes, feudal rights, game, warrens, pidgeons, &c. have been received with the greatest joy by the mass of the people, and by all not immediately interested; and some even of the latter approve highly of the declaration: but I have had much conversation with two or three very sensible persons, who complain bitterly of the gross injustice and cruelty of any such declarations of what will be done, but is not effected and regulated at the moment of declaring. Monf. l'Abbe Arbré, to whom Monf. de Brouffonet's letter introduced me, had the goodness not only to give me all the information relative to the curious country around Clermont, which, particularly as a naturalist, attracted his enquiries, but also introduced me to Monf. Chabrol, as a gentleman who has attended much to agriculture, and who answered my enquiries in that line

with great readinefs.

The 13th. At Reya, near Clermont, a village in the volcanic mountains, which are fo curious, and of late years fo celebrated, are fome fprings, reported by philosophical travellers to be the finest and most abundant in France; to view these objects, and more still, a very fine irrigation, said also to be practifed there, I engaged a guide. Report, when it speaks of things of which the reporter is ignorant, is sure to magnify; the irrigation is nothing more than a mountain side converted by water to some tolerable mea-

dow, but done coarfely, and not well understood. That in the vale, between Riom and Ferrand, far exceeds it. The fprings are curious and powerful: they gush, or rather burst from the rock in four or five streams, each powerful enough to turn a mill, into a cave a little below the village. About half a league higher there are many others; they are indeed so numerous, that scarcely a projection of the rocks or hills is without them. At the village, I found that my guide, instead of knowing the country perfectly, was in reality ignorant; I therefore took a woman to conduct me to the fprings higher up the mountain; on my return, she was arrested by a foldier of the garde bourgeoise (for even this wretched village is not without its national militia) for having, without permission, become the guide of a stranger. She was conducted to a heap of stones, they call the chateau. They told me they had nothing to do with me: but as to the woman, she should be taught more prudence for the future; as the poor devil was in jeopardy on my account, I determined at once to accompany them for the the chance of getting her cleared, by attefting her innocence. We were followed by a mob of all the village, with the woman's children crying bitterly, for fear their mother should be imprisoned. At the castle, we waited some time, and were then shewn into another apartment, where the town committee was affembled; the accufation was heard; and it was wifely remarked by all, that, in fuch dangerous times as thefe, when all the world knew that fo great and powerful a perfon as the Queen was conspiring against France in the most alarming manner, for a woman to become the conductor of a ftranger—and of a ftranger who had been making fo many suspicious enquiries as I had, was a high offence. It was immediately agreed, that the ought to be imprisoned. I affured them she was perfectly innocent; for it was impossible that any guilty motive should be her inducement; finding me curious to see the springs, as I had viewed the lower ones, and wanted a guide for feeing those higher in the mountain, she offered herfelf: and could have no other than the industrious view of getting a few fols for her poor family. They then turned their enquiries against me, that if I wanted to fee springs only, what induced me to ask a multitude of questions concerning the price, value, and product of the lands? What had such enquiries to do with springs and volcanoes? I told them, that cultivating fome land in England, rendered fuch things interesting to me perfonally: and lafily, that if they would fend to Clermont, they might know, from feveral respectable persons, the truth of all I afferted; and therefore I hoped, as it was the woman's first indiferation, for I could not call it offence, they would dismiss her. This was refused at first, but assented to at last, on my declaring, that if they imprisoned her, they should do the same by me, and answer it as they could. They consented to let her go, with a reprimand, and I departed; not marvelling, for I have done with that, at their ignorance, in imagining that the Queen should conspire so dangerously against their rocks and mountains. I found my guide in the midft of the mob, who had been very bufy in putting as many questions about me, as I had done about their crops.— There were two opinions; one party thought I was a commissaire, come to ascertain the damage done by the hail: the other, that I was an agent of the Queen's, who intended to blow the town up with a mine, and fend all that escaped to the gallies. The care that must have been taken to render the character of that princess detested among the people, is incredible; and there feem every where to be no abfurdities too grofs, nor circumflances too impossible for their faith. In the evening to the theatre, the Optimist well acted. Before I leave Clermont, I must remark, that I dined, or supped five times at the table d'hôte, with from twenty to thirty merchants and tradefmen, officers, &c. and it is not easy for me to express the insignificance, - the inanity of the conversation. Scarcely any politics, at a moment when every bosom ought to beat with none but political fensations. The ignorance or the stupidity of these people must be absolutely incredible; not a week paffes without their country abounding with events that are analyzed and debated by the carpenters and blacksmiths of England. The abolition of tythes, the destruction of the gabelle, game made property, and feudal rights destroyed, are French topics, that are translated into English within fix days after they happen, and their confequences, combinations, refults, and modifications, become the difquisition and entertainment of the grocers, chandlers, drapers, and shoemakers of all the towns of England; yet the fame people in France do not think them worth their conversation, except in private. Why? because conversation in private wants little knowledge; but in public it demands more; and therefore I suppose, for I confess there are a thousand difficulties attending the solution, they are silent. But how many people, and how many subjects, on which volubility is proportioned to ignorance? Account for

the fact as you pleafe, but with me it admits no doubt.

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The 14th. To Izoire, the country all interesting, from the number of conic mountains that rife in every quarter; fome are crowned with towns;—on others are Roman castles, and the knowledge that the whole is the work of subterranean fire, though in ages far too remote for any record to announce, keeps the attention perpetually alive. Mons. de l'Arbre had given me a letter to Mons. Brés, doctor of physic, at Izoire: I found him, with all the townsmen, collected at the hotel de ville, to hear the newspaper read. He conducted me to the upper end of the room, and feated me by himself: the fubject of the paper was the suppression of the religious houses, and the commutation of tythes. I observed that the auditors, among whom were some of the lower class, were very attentive; and the whole company feemed well pleafed with whatever concerned the tythes and the monks. Monf. Brés, who is a feufible and intelligent gentleman, walked with me to his farm, about half a league from the town, on a foil of superior richness; like all other farms, this is in the hands of a metayer. Supped at his house afterwards, in an agreeable company, with much animated political conversation. We discussed the news of the day; they were inclined to approve of it very warmly; but I contended, that the National Affembly did not proceed on any regular well digested fystem; that they seemed to have a rage for pulling down, but no taste for rebuilding: that if they proceeded much farther on fuch a plan, destroying every thing, but establishing nothing, they would at last bring the kingdom into such confusion, that they would even themselves be without power to restore it to peace and order; and that such a fituation would, in its nature, be on the brink of the precipice of bankruptcy and civil war. I ventured further, to declare it as my idea, that without an upper house, they never could have either a good or a durable constitution. We had a difference of opinion on these points; but I was glad to find, that there could be a fair discussion; and that, in a company of fix or feven gentlemen, two would venture to agree with a fystem so unfashionable as mine.—17 miles.

The 15th. The country continues interesting to Brioud. On the tops of the mountains. of Auvergne are many old castles, and towns, and villages. Pass the river, by a bridge of one great arch, to the village of Lampdes. At that place, wait on Monsieur Greyffier de Talairat, avocat and subdelegue, to whom I had a letter; and who was so obliging as to answer, with attention, all my enquiries into the agriculture of the neighbourhood. He enquired much after Lord Brittol; and was not the worse pleased with me, when he heard that I came from the fame province in England. We drank his Lordship's health, in the strong white wine, kept four years in the sun, which Lord Bristol

had much commended. 18 miles.

The 16th. Early in the morning, to avoid the heat, which has rather incommoded me, to Fix. Cross the river by a ford, near the spot where a bridge is building, and mount gradually into a country, which continues interesting to a naturalist, from its volcanic origin; for all has been either overturned, or formed by fire. Pass Chomet; and defeending, remark a heap of bafaltic columns by the road, to the right; they are fmall, but regular fexagons. Poulaget appears in the plain to the left. Stopped at St. George, where I procured mules, and a guide, to fee the bafaltic columns at Chilliac, which, however, are hardly striking enough to reward the trouble. At Fix, I saw a field of tine clover; a fight that I have not been regaled with, I think, fince Alface. I defired to know to whom it belonged? to Monf. Coffier, doctor of medicine. I went to his house to make enquiries, which he was obliging enough to gratify, and indulged me in a walk over the principal part of his farm. He gave me a bottle of excellent vin blanc mouffeux, made in Auvergne. I enquired of him the means of going to the mine of antimony, four leagues from hence; but he faid the country was fo enragé in that part, and had lately been fo mischievous, that he advised me by all means to give up the project. This country from climate, as well as pines, must be very high. I have been for three days past melted with heat; but to day, though the sun is bright, the heat has been quite moderate, like an English summer's day, and I am assured that they never have it hotter; but complain of the winter's cold being very fevere; and that the fnow in the last was fixteen inches deep on the level. The interesting circumstance of the whole is the volcanic origin: all buildings and walls are of lava: the roads are mended with lava, pozzolana, and basaltes; and the face of the country every where exhibits the origin in subterranean fire. The fertility, however, is not apparent, without reflection. The crops are not extraordinary, and many bad; but then the height is to be confidered. In no other country that I have feen are fuch great mountains as thefe, cultivated fo high; here corn is feen every where, even to their tops, at heights where it is usual to find rock, wood, or ling (erica vulgaris)——42 miles.

The 17th. The whole range of the fifteen miles to Le Puy en Velay, is wonderfully interesting. Nature, in the production of this country, such as we see it at present, must have proceeded by means not common elsewhere. It is all in its form tempestuous as the billowy ocean. Mountain rifes beyond mountain, with endless variety: not dark and dreary, like those of equal height in other countries, but spread with cultivation (feeble indeed) to the very tops. Some vales funk among them, of beautiful verdure, please the eye. Towards Le Puy the scenery is still more striking, from the addition of iome of the most singular rocks any where to be seen. The castle of Polignac, from which the duke takes his title, is built on a bold and enormous one; it is almost of a cubical form, and towers perpendicularly above the town, which furrounds it at its foot. The family of Polignac claim an origin of great antiquity; they have pretentions that go back, I forget whether to Hector or Achilles; but I never found any one in conversation inclined to allow them more than being in the first class of French families, which they undoubtedly are. Perhaps there is no where to be met with a castle more formed to give a local pride of family than this of Polignac: the man hardly exists that would not feel a certain vanity, at having given his own name, from remote antiquity, to fo fingular and so commanding a rock; but if, with the name, it belonged to me, I would scarcely fell it for a province. The building is of such antiquity, and the situation so romantic, that all the feudal ages pass in review in one's imagination, by a fort of magic influence; you recognize it for the refidence of a lordly baron, who, in an age more diftant and more respectable, though perhaps equally barbarous, was the patriot desender of his country against the invasion and tyranny of Rome. In every age, since the horrible combustions of nature which produced it, such a spot would be chosen for security and defence. To have given one's name to a castle, without any lofty pre-eminence or singularity of nature, in the midst, for instance, of a rich plain, is not equally flattering to our feelings: all antiquity of family is derived from ages of great barbarsin, when civil commotious and wars swept away and consounded the inhabitants of such situations. The Bretons of the plains of England were driven to Bretagne; but the same people, in the mountains of Wales, stuck secure, and remain there to this day. About a gun-shot from Polignac is another rock, not so large, but equally remarkable; and in the town of Le Puy, another commanding one rises to a vast height; with another more singular for its tower-like form—on the top of which St. Michael's church is built. Gyplum and lime-stone abound; and the whole country is volcanic; the very meadows are on lava: every thing, in a word, is either the product of fire, or has been disturbed or tossed about by it. At Le Puy, sair day, and a table d'hôte, with ignorance, as usual. Many cossed-houses, and even considerable ones, but not a single newspaper to be found in any.——15 miles.

The 18th. Leaving Puy, the hill which the road mounts on the way to Costerous, for four or five miles, commands a view of the town far more picturesque than that of Clermont. The mountain, covered with its conical town, crowned by a vast rock, with those of St. Michael and of Polignac, form a most singular scene. The road is a noble one, formed of lava and pozzolana. The adjacent declivities have a strong disposition to run into basiltic pentagons and sexagons; the stones put up in the road, by way of posts, are parts of basiltic columns. The inn at Pradelles, kept by three sisters, Pichots, is one of the worst I have met with in France. Contraction, poverty,

dirt, and darkness.----20 miles.

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The oth. To Thuytz; pine woods abound; there are faw-mills, and with ratchet wheels to bring the tree to the law, without the constant attention of a man, as in the Pyrenees: a great improvement. Pass by a new and beautiful road, along the fide of immense mountains of granite; chesnut trees spread in every quarter, and cover with luxuriance of vegetation rocks apparently fo naked, that earth feems a franger. This beautiful tree is known to delight in volcanic foils and fituations: many are very large; I measured one fifteen feet in circumference, at five from the ground; and many are nine to ten feet, and fifty to fixty high. At Maisse the fine road ends, and then a rocky, almost natural one for some miles; but for half a mile before Thuytz recover the new one again, which is here equal to the finest to be seen, formed of volcanic materials, forty feet broad, without the least stone, a firm and naturally level cemented furface. They tell me that one thousand eight hundred toises of it, or about two and a half miles, cost 180,000 livres (\$2501.) It conducts according to cultom, to a milerable inn, but with a large stable; and in every respect Monsieur Grenadier excels the Demoiselles Pichots. Here mulberries first appear, and with them flies; for this is the first day I have been incommoded. At Thuytz I had an object which I supposed would demand a whole day: it is within four hours ride of the Montagne de la coup au Colet d'Aifa, of which M. Faujas de St. Fond has given a plate, in his Refearches fur les volcanoes eteints, that shews it to be a remarkable object: I began to make enquiries, and arrangements for having a mule and a guide to go thither the next morning; the man and his wife attended me at dinner, and did not feem, from the difficulties they raifed at every moment, to approve my plan : havin, asked them some questions about the price of provisions, and other things, I fuppose they regarded me with fuspicious eyes, and theu int that I had no good intentions. I defired however to have the mulc—come difficulties were madehave two mules - Very well, get me two. Then returning, a man was not to be had; with fresh expressions of surprise, that I should be eager to see mountains that did not concern me. After raifing fresh difficulties to every thing I faid, they at last plainly told me, that I should neither have mule nor man; and this with an air that evidently made the case hopeless. About an hour after, I received a polite message from the Marquis Deblou, feigneur of the parish, who hearing that an inquisitive Englishman was at the inn, enquiring after volcanoes, proposed the pleasure of taking a walk with me. I accepted the offer with alacrity, and going directly towards his house met him on the road. I explained to him my motives and my difficulties; he faid, the people had gotten fome abfurd fuspicions of me from my questions, and that the present time was fo dangerous and critical to all travellers, that he would advife me by no means to think of any fuch excursions from the great road, unless I found much readiness in the people to conduct me: that at any other moment than the present he should be happy to do it himself, but that at present it was impossible for any person to be too cautious. There was no relifting this reasoning, and yet to lose the most curious volcanic remains in the country, for the crater of the mountain is as distinct in the print of Monf. de St. Fond, as if the lava were now running from it, was a mortifying circumstance. The Marquis then shewed me his garden and his chateau, amidst the mountains; behind it is that of Gravene, which is an extinguished volcano likewife, but the crater not discernible without difficulty. In conversation with him and another gentleman, on agriculture, particularly the produce of mulberries, they mentioned a finall piece of land that produced, by filk only, 120 livres (51. 58.) a year, and being contiguous to the road we walked to it. Appearing very small for such a produce, I stepped it to ascertain the contents, and minuted them in my pocket-book. Soon after, growing dark, I took my leave of the gentlemen, and retired to my inn. What I had done had more witneffes than I dreamt of; for at eleven o'clock at night, a full hour after I had been afleep, the commander of a file of twenty milice bourgeoife, with their mulquets, or fwords, or fabres, or pikes, entered my chamber, furrounded my bed, and demanded my paffport. A dialogue enfued, too long to minute; I was forced first to give them my paisport, and, that not satisfying them, my papers. They told me that I was undoubtedly a conspirator with the Queen, the Count d'Artois, and the Count d'Entragues (who has property here), who had employed me as an arpenteur, to measure their fields, in order to double their taxes. My papers being in English saved me. They had taken it into their heads that I was not an Englifhman—only a pretended one; for they speak such a jargon themselves, that their ears were not good enough to discover by my language that I was an undoubted foreigner. Their finding no maps, or plans, nor any thing that they could convert by supposition to a cadaltre of their parish, had its effect, as I could fee by their manner, for they conversed entirely in Patois. Perceiving, however, that they were not satisffied, and talked much of the Count d'Entragues, I opened a bundle of letters that were fealed-thefe, gentlemen, are my letters of recommendation to various cities of France and Italy, open which you please, and you will find, for they are written in French, that I am an honest Englishman, and not the rogue you take me for. On this they held a fresh consultation and debate, which ended in my favour; they resulted to open the letters, prepared to leave me, faying, that my numerous questions about lands, and measuring a field, while I pretended to come after volcanoes, had raised great sufpicions, which they observed were natural at a time when it was known to a certainty that the Queen, the Count d'Artois, and the Count d'Entragues were in a conspiracy against the Vivarais. And thus, to my entire fatisfaction, they wished me a good night, and left me to the bugs, which swarmed in the bed like slies in a honey-pot. I had a narrow escape—it would have been a delicate situation to have been kept prisoner probably in some common gaol, or, if not, guarded at my own expence, while they tent a

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courier to Paris for orders .--- 20 miles. The 20th. The fame imposing mountainous features continue to Villeneuve de Berg. The road, for half a mile, leads under an immense mass of basaltic lava, run into configurations of various forms, and refting on regular columns; this vast range bulges in the centre into a fort of promontory. The height, form, and figures, and the decifive volcanic character the whole mass has taken, render it a most interesting spectacle to the learned and unlearned eye. Just before Aubenas, mistaking the road, which is not half finished, I had to turn; it was on the slope of the declivity, and very rare that any wall or defence is found against the precipices. My French mare has an ill talent of backing too freely when the begins: unfortunately the exercised it at a moment of imminent danger, and backed the chaife, me and herfelf down the precipice; by great good luck, there was at the spot a fort of shelf of rock, that made the immediate fall not more than five feet direct. I leaped out of the chaife in the moment, and fell unhurt: the chaife was overthrown and the mare on her fide, entangled in the harness, which kept the carriage from tumbling down a precipice of fixty feet. Fortunately she lay quietly, for had the struggled both must have fallen. I called some lime-burners to my affistance, who were with great difficulty brought to submit to directions, and not each pursue his own idea to the certain precipitation of both mare and chaife. We extricated her unhurt, secured the chaise, and then, with still greater difficulty, regained the road with This was by far the narrowest escape I have had. A blessed country for a broken limb-confinement for fix weeks or two months at the Cheval Blanc, at Aubenas, an inn that would have been purgatory itself to one of my hogs: alone-without relation, friend, or fervant, and not one person in fixty that speaks French. Thanks to the good providence that preserved me! What a situation-I shudder at the ressection more than I did falling into the jaws of the precipice. Before I got from the place there were seven men about me, I gave them a 3 livre piece to drink, which for some time they refused to accept, thinking, with unaffected modesty, that it was too much. At Aubeans repaired the harness, and, leaving that place, viewed the filk mills, which are confiderable. Reach Villeneuve de Berg. I was immediately hunted out by the milice bourgeoife. Where is your certificate? Here again the old objection that my features and person were not described. Your papers? The importance of the case. they faid, was great: and they looked as big as if a marshal's batton was in hand. They tormented me with an hundred questions; and then pronounced that I was a fulpicious looking person. They could not conceive why a Suffolk farmer could travel into the Vivarais. Never had they heard of any person travelling for agriculture! They would take my passport to the hotel de ville - have the permanent council assembled - and place a centinel at my door. I told them they might do what they pleafed, provided they did not prohibit my dinner, as I was hungry; they then departed. In about half an hour a gentleman-like man, a Croix de St. Louis came, asked me some questions very politely, and seemed not to conclude that Maria Antonietta and Arthur Young were at this moment in any very dangerous conspiracy. He retired, saying, he hoped I should not meet with any difficulties. In another half hour a soldier came to conduct me to the hotel de ville; where I found the council affembled; a good many questions were asked; and some expressions of surprise that an English farmer should travel fo far for agriculture—they had never heard of fuch a thing; but all was in a polite liberal manner; and though travelling for agriculture was as new to them, as if vol. IV.

it had been like the antient philosopher's tour of the world on a cow's back, and living on the milk; yet they did not deem any thing in my recital improbable, figned my paffport very readily, affired me of every affiftance and civility I might want, and difmilled me with the politeness of gentlemen. I described my treatment at Thuytz, which they loudly condemned. I took this opportunity to beg to know where that Pradel was to be found in this country, of which Oliver de Serres was feigneur, the well known French writer on agriculture in the reign of Henry IV. They at once pointed out of the window of the room we were in to the house, which in Villeneuve de Berg belonged to him, and informed me that Pradel was within a league. As this was an object I had noted before I came to France, the information gave me no flight fatisfaction. The mayor, in the course of the examination, presented me to a gentleman who had translated Sterne into French, but who did not fpeak English: on my return to the auberge I found that this was Monf, de Boiffiere, avocat general of the parliament of Grenoble. I did not care to leave the place without knowing fomething more of one who had diffinguithed himfelf by his attention to English literature; and I wrote to him a note, begging permission to have the pleasure of some conversation with a gentleman who had made our inimitable author fpeak the language of a people he loved fo well. Monf, de Boiffiere came to me immediately, conducted me to his house, introduced me to his lady and fome friends, and as I was much interested concerning Oliver de Serres, he offered to take a walk with me to Pradel. It may eafily be tupposed that this was too much to my mind to be refused, and few evenings have been more agreeably front. I regarded the refidence of the great parent of French agriculture, and who was undoubtedly one of the first writers on the subject that had then appeared in the world, with that fort of veneration, which those only can feel who have addicted themselves strongly to some predominant pursuit, and find it in such moments indulged in its most exquisite feelings. Two hundred years after his exertions, let me do honour to his memory, he was an excellent farmer, and a true patriot, and would not have been fixed on by Henry IV, as his chief agent in the great project of introducing the culture of filk in France, if he had not pedfelled a confiderable reputation; a reputation well earned, fince posterity has confirmed it. The period of his practice is too remote to gain any thing more than a general outline of what may now be supposed to have been his farm. The basis of it is limestone; there is a great oak wood near the chateau, and many vines, with plenty of mulberries, fome apparently old enough to have been planted by the hand of the venerable genius that has rendered the ground classic. The estate of Pradel, which is about 5000 livres (218l. 15s.) a year, belongs at prefent to the Marquis of Mirabel, who inherits it in right of his wife. as the descendant of De Serres. I hope it is exempted for ever from all taxes; he whose writings laid the foundation for the improvement of a kingdom, should leave to his posterity some marks of his country men's gratitude. When the present bishop of Sifteron was thewn like me, the farm of De Serres, he remarked, that the nation ought to creft a flatue to his memory. The fentiment is not without merit, though no more than common fnuff-box chat; but if this bishop has a well cultivated farm in his hands it does him honour. Supped with Monf. and Madame de Boiffiere, &c. and had the pleafure of an agreeable and interesting conversation.—21 miles.

The 21st. Monf. de Boissiere, wishing to have my advice in the improvement of a farm, which he has taken into his hands, fix or seven miles from Berg, in my road to Viviers, accompanied me thither. I advised him to form one well executed and well improved inclosure every year—to finish as he advances, and to do well what he attempts to do at all; and I cautioned him against the common abuse of that excellent

hesbandry, paring and burning. Is suspect, however, that his homme d'affaire will be too potent for the English traveller. I hope he has received the turnip-feed I sent him. Dine at Viviers, and pass the Rhone. 'After the wretche and of the Vivarais, dirt, silth, bugs, and slarving, to arrive at the hotel de Monsieur, at Montilimart, a great and excellent inn, was something like the arrival in France from Spain: the contrast is striking; and I seemed to hug myself, that I was again in a christian country, among the

Milors Ninchitreas, and my Ladi Bettis, of Monf. Chabot. ____2 3 miles.

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The 22d. Having a letter to Monf. Faujas de St. Fond, the cebrated naturalift, who has favoured the world with many important works on volcanoes, aëroftation, and various other branches of natural history, I had the fatisfaction, on enquiring, to find, that he was at Montilimart; and, waiting on him, perceived that a man of diffinguished merit was handfomely lodged, with every thing about him that indicated an eafy fortune. He received me with the frank politeness inherent in his character; introduced me, on the spot, to a Mons. l'Abbé Berenger, who resided near his country-seat, and was, he faid, an excellent cultivator; and likewife to another gentleman, whose tafte had taken the same good direction. In the evening Monf. Faujas took me to call on a female friend, who was engaged in the fame enquiries, Madame Cheinet, whose husband is a member of the National Affembly; if he have the good luck to find at Verfailles fome other lady as agreeable as her he has left at Montilimart, his mission will not be a barren one; and he may perhaps be better employed than in voting regenerations. This lady accompanied us in a walk for viewing the environs of Montilimart; and it gave me no small pleasure to find, that she was an excellent farmeress, practises considerably, and had the goodness to answer many of my enquiries, particularly in the culture of filk. I was so charmed with the naiveté of character, and pleasing conversation of this very agreeable lady, that a longer stay here would have been delicious—but the plough!

The 23d. By appointment accompanied Monf. Faujas to his country-feat and farm at l'Oriol, fifteen miles north of Montilimart, where he is building a good house. I was pleased to find his farm to amount to two hundred and eighty septeres of land: I should have liked it better, had it not been in the hands of a metayer. Monf. Faujas pleafes me much; the livelings, vivacity, phlogiston of his character, do not run into pertness, foppery, or affectation; he adheres steadily to a subject; and shews, that to clear up any dubious point, by the attrition of different ideas in conversation, gives him pleafure; not through a vain fluency of colloquial powers, but for better understanding a subject. Monf. Abbé Berenger, and another gentleman, passed the next day at Monf. Faujas': we walked to the Abbé's farm. He is of the good order of beings, and pleases me much; curé of the parish, and president of the permanent council. He is at present warm on a project of re-uniting the protestants to the church; spoke, with great pleafure, of having perfuaded them, on occasion of the general thankigiving for the establishment of liberty, to return thanks to God, and fing the Te Deum in the catholic church, in common, as brethren, which, from confidence in his character, they did. He is firmly perfunded, that, by both parties giving way a little, and foftening or retrenching reciprocally fomewhat in points that are difagreeable, they may be brought The idea is so liberal, that I question it for the multitude, who are never governed by reafon, but by trifles and ceremonies,—and who are ufually attached to their religion, in proportion to the abfurdities it abounds with. I have not the least doubt but the mob in England would be much more feandalized at parting with the creed of St. Athanafius, than the whole bench of hishops, whose illumination would perhaps reflect correctly that of the throne. Monf. l'Abbé Berenger has prepared a

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memorial, which is ready to be presented to the National Assembly, proposing and explaining this ideal union of the two religions; and he had the plan of adding a clause, proposing that the clergy should have permission to marry. He was convinced that it would be for the interest of morals, and much for that of the nation, that the clergy should not be an infulated body, but holding by the same interests and connections as other people. He remarked, that the life of a cure, and especially in the country, is melancholy; and, knowing my paffion, observed, that a man could never be so good a farmer, on any possession he might have, excluded from being succeeded by his children. He shewed me his memoir, and I was pleased to find that there is at present great harmony between the two religions, which must be ascribed certainly to such good cures. The number of protestants is very confiderable in this neighbourhood. I strenuously contended for the infertion of the clause respecting marriage; assured him, that at fuch a moment as this, it would do all who were concerned in this memorial the greatest credit; and that they ought to consider it as a demand of the rights of humanity, violently, injuriously, and relative to the nation, impolitically with-held. Yesterday, in going with Monf. Faujas, we passed a congregation of protestants, assembled, Druid like, under five or fix spreading oaks, to offer their thanksgiving to the great Parent of their happiness and hope. In such a climate as this, is it not a worthier temple, built by the great hand they revere, than one of brick and mortar? This was one of the richest days I have enjoyed in France; we had a long and truly farming dinner; drank a l'Anglois fuccess to THE PLOUOH; and had so much agricultural conversation, that I wished for my farming friends in Suffolk to partake of my satisfaction. If Mons. Faujas de S. Fond come to England, as he gives me hopes, I shall introduce him to them with pleasure. In the evening return to Montilimart. --- 30 miles.

The 25th. To Chateau Rochemaur, across the Rhone. It is situated on a basaltick rock, nearly perpendicular, with every columnal proof of its volcanic origin. See Mons. Faujas's Recherches. In the afternoon to Piere Latte, through a country steril,

uninteresting, and far inferior to the environs of Montilimart. ____22 miles.

The 26th. To Orange, the country not much better; a range of mountains to the left: fee nothing of the Rhone. At that town there are remains of a large Roman building, feventy or eighty feet high, called a circus, of a triumphal arch, which, though a good deal decayed, manifells, in its remains, no ordinary decoration, and a pavement in the house of a poor person, which is very persect and beautiful, but much inferior to The vent de bize has blown strongly for several days, with a clear that of Nilmes. sky, tempering the heats, which are fometimes fultry and oppressive; it may, for what I know, be wholesome to French constitutions, but it is dreadful to mine; I found myfell very indifferent, and, as if I were going to be ill, a new and unufual fenfation over my whole body: never dreaming of the wind, I knew not what to attribute it to, but my complaint coming at the fame time, puts it out of doubt; befides, inflinct now, much more than reason, makes me guard as much as I can against it. At four or five in the morning it is fo cold that no traveller ventures out. It is more penetratingly drying than I had any conception of; other winds stop the cutaneous perspiration; but this piercing through the body feems, by its fenfation, to dry up all the interior humidity. --- 20 miles.

The 27th. To Avignon.—Whether it were because I had read much of this town in the history of the middle ages, or because it had been the residence of the Popes, or more probably from the still more interesting memoirs which Petrarch has left concerning it, in poems that will last as long as Italian elegance and human feelings shall exist, I know not—but I approached the place with a fort of interest, attention, and expect-

ancy, that few towns have kindled. Laura's tomb is in the church of the Cord lers; it is nothing but a stone in the pavement, with a figure engraven on it partly a ced, surrounded by an inscription in Gothic letters, and another in the wall adjoining, with the armorial of the family of Sade. How incredible is the power of great talents, when employed in delineating passions common to the human race! How many millions of women, fair as Laura, have been beloved as tenderly—but wanting a Petrarch to illustrate the passion, have lived and died in oblivion! whilst his lines, not written to die, conduct thousands under the impulse of feelings, which genius only can excite, to mingle in idea their melancholy sighs with those of the poet who consecrated these remains to immortality! There is a monument of the brave Crillon in the same church; and I saw other churches and pictures—but Petrarch and Laura are predominant at Avignon.

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The 28th. Wait upon Pere Brouillony, provincial vilitor, who, with great politeness, procured me the information I wished, by introducing me to some gentlemen conversant From the rock of the legate's palace, there is one of the finest views in agriculture. of the windings of the Rhone that is to be seen: it forms two considerable islands, which, with the rest of the plain, richly watered, cultivated, and covered with mulberries, olives, and fruit-trees, hath an interesting boundary in the mountains of Provence, Dauphiné and Languedoc.—The circular road fine. I was struck with the resemblance between the women here and in England. It did not at once occur in what it confifted; but it is their caps; they drefs their heads quite different from the French women. A better particularity, is there being no wooden shoes here, nor, as I have feen, in Provence . I have often complained of the stupid ignorance I met with at tables d'hôtes. Here, if possible, it has been worfe than common. The politeness of the French is proverbial, but it never could arise from the manners of the classes that frequent these tables. Not one time in forty will a foreigner, as such, receive the least mark of attention. The only political idea here is, that if the English should attack France, they have a million of men in arms to receive them; and their ignorance feems to know no diffinction between men in arms in their towns and villages, or in action without the kingdom. They conceive, as Sterne observes, much better than they combine: I put some questions to them, but in vain: I asked, if the union of a rusty sirelock and a Burgeois made a foldier?—I atked them in which of their wars they had wanted men? I demanded, whether they had ever felt any other want than that of monev? and whether the conversion of a million of men into the bearers of musquets would make money more plentiful? I asked if personal service were not a tax? And whether paying the tax of the fervice of a million of men increased their faculties of paying other and more useful taxes? I begged them to inform me, if the regeneration of the kingdom, which had put arms in the hands of a million of mob, had rendered indultry more productive, internal peace more fecure, confidence more enlarged, or credit more stable? And lastly, I assured them, that should the English attack them at present, they would probably make the weakest figure they had done from the foundation of their monarchy: but, gentlemen, the English, in spite of the example you set them in the American war, will disdain such a conduct; they regret the constitution you are forming, because they think it a bad one -but whatever you may establish, you will have no interruption, but many good wishes from your neighbour. It was all in vain;

^{*} We were, like you, struck with the resemblance of the women at Avignon to those of England, but not for the reason you give; it appeared to us to originate from their complexions being naturally so much better than that of the other French women, more than their head-dress, which differs as much from ours as it does from the French. "Note by a semale friend."

they were well perfuaded their government was the best in the world; that it was a monarchy, and no republic, for which I contended: and that the English thought so too, because they would unquestionably abolish their house of tords, in the enjoyment of which accurate idea I left them.—In the evening to Lille, a town which has loft its name in the world, in the more fplendid fame of Vaucluse. There can hardly be met with a richer, or better cultivated tract of fixteen miles; the irrigation is fuperb. Lille is most agreeably fituated. On coming to the verge of it I found fine plantations of class, with delicious streams, bubbling over pebbles on either side; well dressed people were enjoying the evening at a fpot, which I had conceived to be only a mountainous village. It was a fort of fairy feene to me. Now, thought I, how detellable to leave all this fine wood and water, and enter a nafty, beggarly, walled, hot, flinking town, one of the contrails most offensive to my feelings? What an agreeable surprise, to find the inn without the town, in the midft of the fcenery I had admired! and more fo, as it was cheap, and the accommodations good. I walked on the banks of this classic stream for an hour, with the moon gazing on the waters, that will run for ever in mellifluous poetry: retired to fup on the most exquisite trout and craw fish in the world. To-morrow

to the famed origin, ____16 miles.

The 29th. I am delighted with the environs of Lille; beautiful roads, well planted, furround and pass off in different directions, as if from a capital town, umbrageous enough to form promenades against a hot fun, and the river is divided into so many ftreams, and conducted with formuch attention, that it has a delicious effect, especially to an eye that recognifes all the fertility of irrigation. To the fountain of Vauclufe, which is justly faid to be as celebrated almost as that of Helicon. Crofling a plain, which is not fo beautiful as one's idea of Tempe; the mountain prefents an almost perpendicular rock, at the foot of which is an immense and very fine cavern, half filled with a pool of flagnant, but clear water; this is the famous fountain; at other feafons it fills the whole cavern, and boils over in a vaft stream among rocks; its bed now marked by vegetation. At prefent the water gushes out two hundred yards lower down, from beneath maffes of rock, and in a very finall distance forms a confiderable river, which almost immediately receives deviations by art for mills and irrigation. On the summit of a rock above the village, but much below the mountain, is a ruin, called, by the poor people here, the chateau of Petrarch-who tell you it was inhabited by Monf. Petrarch The scene is sublime; but what renders it truly interesting to and Madame Laura. our feelings, is the celebrity which great talents have given it. The power of rocks, and water, and mountains, even in their boldest features, to arrest attention, and fill the before with fenfations that banish the insipid feelings of common life-holds not of inanimate nature. To give energy to fuch fenfations, it must receive animation from the creative touch of a vivid fancy: described by the poet, or connected with the residence, actions, purfuits, or passions of great geniuses; it lives, as it were, personified by talents, and commands the interest that breathes around whatever is confectated by fame. To Orgon. Quit the Pope's territory, by crofling the Durance; there view the fkeleton of the navigation of Boilgelin, the work of the archbishop of Aix, a noble project, and, where finished, perfectly well executed; a hill is pierced by it for a quarter of a mile, a work that rivals the greatest fimilar exertions. It has, however, stood still many years for want of money. The vent de bize gone, and the heat increased, the wind now S. W., my health better to a moment, which proves how pernicious that wind is, even in August. _____ 20 miles.

The 30th. I forgot to observe that, for a few days past, I have been pestered with all the mob of the country shooting: one would think that every rully gun in Provence is

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at work, killing all forts of birds; the shot has fallen five or fix times in my chaise and about my ears. The National Assembly have declared that every man has a right to kill game on his own land; and advancing this maxim so absurd as a declaration, though so wise as a law, without any statute or provision to secure the right of the game to the possession of the foil, according to the tenor of the vote, have, as I am every where informed, filled all the fields of France with sportsmen to a great detriment. The same effects have slowed from declarations of right relative to tythes, taxes, feudal rights, &c. In the declarations, conditions and compensations are talked of; but an unruly, ungovernable multitude seize the benefit of the abolition, and laugh at the obligations or recompense. Out by day break for Salon, in order to view the Crau, one of the most singular districts in France for its soil, or rather want of soil; being apparently a region of sea slints, yet seeding great herds of sheep: view the improvement of Monsieur Pasquali, who is doing great things, but roughly: I wished to see and converse with him, but unfortunately he was absent from Salon. At night to St. Canta.—46 miles.

The 31st. To Aix. Many houses without glass windows. The women with men's hats, and no wooden shoes. At Aix waited on Mons. Gibelin, celebrated for his translations of the works of Dr. Priestley, and of the Philosophical Transactions. He received me with that easy and agreeable politeness natural to his character. He took every method in his power to procure me the information I wanted, and engaged to go with me the next day to Tour D'Aigues to wait on the baron of that name, president of the parliament of Aix, to whom also I had letters; and whose csays, in the Trimestres of the Paris Society of Agriculture, are among the most valuable on rural economics in that work.——12 miles.

September 1th. Tour d'Aigues is twenty miles north of Aix, on the other fide of the Durance, which we croffed at a ferry. The country about the chateau is bold and hilly, and fwells in four or five miles into rocky mountains. The prefident received me in a very friendly manner, with a fimplicity of manners that gives a dignity to his character, void of affectation; he is very fond of agriculture and planting. The afternoon was paffed in viewing his home-farm, and his noble woods, which are uncommon in this naked province. The chateau of Tour d'Aigues, before much of it was accidentally confumed by fire, must have been one of the most confiderable in France; but at prefent a melancholy spectacle is left. The baron is an enormous sufferer by the revolution; a great extent of country, which belonged in absolute right to his ancestors, was formerly granted for quit-rents, cens, and other foundal payments, fo that there is no comparison between the lands retained and those thus granted by his family. The loss of the droits honorifiques is much more than has been apparent, as it is an utter lofs of all influence; it was natural to look for some plain and simple mode of compensation; but the declaration of the National Affembly allows none; and it is feelingly known in this chateau, that the folid payments which the Affembly have declared to be rachetable are every hour falling to nothing, without a shadow of recompense. The people are in arms, and at this moment very unquier. The fituation of the nobility in this country is pitiable; they are under apprehensions that nothing will be left them, but simply such houses as the mob allows to tland unburnt; that the metayers will retain their farms without paying the landlord his half of the produce; and that, in case of such a refusal, there is actually neither law nor authority in the country to prevent it. Here is, however, in this house, a large and an agreeable society, and cheerful to a miracle, confidering the times, and what fuch a great baron is lofting, who has inherited from his anceftors, immenfe possessions, now frittering to nothing by the revolution. This chateau, fplendid even in ruins, the venerable woods, park, and all the entigus of family and

command, with the fortune, and even the lives of the owners at the mercy of an armed rabble. What a speciacle! The baron has a very fine and well filled library, and one part of it totally with books and tracts on agriculture, in all the languages of Europe. His collection of these is nearly as numerous as my own.——20 miles.

The 2d. Monf. Le Prefident dedicated this day for an excursion to his mountainfarm, five miles off, where he has a great range, and one of the finest lakes in Provence, two thousand toises round, and forty feet deep. Directly from it rises a fine mountain, confissing of a mass of shell agglutinated into stone; it is a pity this hill is not planted, as the water wants the immediate accompaniment of wood. Carp rise to 25lb, and eels to 12lb. (Note, there are carp in the lake Bourgeat, in Savoy, of 60lb.) A neighbouring gentleman, Monf. Jouvent, well acquainted with the agriculture of this country, accompanied us, and spent the rest of the day at the castle. I had much valuable information from the Baron de Tour d'Aigues, this gentleman, and from Monf. P. Abbé de ________, 1 forget his name. In the evening I had some conversation on house k-eping with one of the ladies, and found, among other articles, that the wages of a gardener are 300 livres (13l. 12s. 6d.); a common man servant, 150 livres (7l.); a Bourgeois cook, 75 to oo livres (90 livres are 3l. 18s. 9d.); a house-mai!, no to 70 livres (3l. 1s. 3d.) Rent of a good house for a Bourgeois 700 or 8-c livres (3sl.)——

The 3d. Took my leave of Monf. Tour d'Aigues' hospitable chatcau, and returned

with Monf. Gibelia to Aix. ____20 miles

The 4th. The country to Marfeilles is all mountainous, but much cultivated with vines and olives; it is, however, naked and uninteresting; and much of the road is left in a feandalous condition for one of the greatest in France, not wide enough, at places, for two carriages to pass with convenience. What a deceiving painter is the imagination!——I had read I know not what lying exaggerations of the ballides about Marfeilles being counted not by hundreds, but by thousands, with anecdotes of Louis XIV. adding one to the number by a citadel. I have feen other towns in France, where they are more numerous: and the environs of Montpellier, without external commerce, are as highly decorated as those of Marseilles; yet Montpellier is not fingular. The view of Marfeilles, in the approach, is not striking. It is well built in the new quarter, but, like all others, in the old, close, ill built, and dirty; the population, if we may judge from the throng in the flreets, is very great; I have met with none that exceeds it in this respect. I went in the evening to the theatre, which is new, but not striking; and not in any respect to be named with that of Bourdeaux, or even Nantes; nor is the general magnificence of the town at all equal to Bourdeaux; the new buildings are neither to extensive, nor so good - the number of ships in the port not to be compared, and the port itself is a horse-pond, compared with the Garonne.——20 miles.

The 5th. Marfeilles is abiolutely exempt from the reproaches I have so often east on others for want of newspapers. I breakfatled at the Case d'Acajon amidst many. Deliver my letters, and receive information concerning commerce; but I am disappointed of one I expected for Mons. I Abté Raynal, the celebrated author. At the table d'hôte, the Count de Mirabeau, both here and at Aix, a topic of conversation; I expected to have found him more popular, from the extravagancies committed in his favour in Provence and at Marfeilles; they consider him merely as a politician of great abilities, whose principles are favourable to theirs; as to his private character, they think they have nothing to do with it; and affert, that they had much rather trust to a rogue of abilities, than put any considence in an honest man of no talents; not, however, meaning to affert, that Mons. de Mirabeau deserved any such appellation. They say he has

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an effate in Provence. I observed, that I was glad to hear he had property; for in fuch revolutions, it was a necessary hold on a man, that he will not drive every thing to confusion, in order to possels a consequence and importance which cannot attend him in peaceable and quiet times. But to be at Marfeilles without feeing Abbé Raynal, one of the undoubted precurfors of the prefent revolution in France, would be mortifying. Having no time to wait longer for letters, I took the refolution to introduce myfelf. He was at the house of his friend Mons. Bertrand. I told the Abbé my fituation: and with that eafe and politeness which flows from a man's knowledge of the world, he replied, that he was always happy to be of use to any gentleman of my nation; and, turning to his friend, faid, here also is one, Sir, who loves the English, and understands their language. In conversing on agriculture, which I had mentioned as the object of my journey, they both expressed their surprise to find, by accounts apparently authentic, that we imported great quantities of wheat, inflead of exporting as we formerly did; and defired to know, if this were really the cafe, to what it was to be afcribed: and recurring, at the fame time, to the Mercure de France for a flatement of the export and import of corn, they read it as a quotation from Mr. Arthur Young. This gave me the opportunity of faying, that I was the person, and it proved a lucky introduction; for it was not poslible to be received with more politeness, or with more offers of fervice and afliftance. I explained, that the change had taken place in confequence of a vast increase of population, a cause still increasing more rapidly than ever.—We had an interesting conversation on the agriculture of France, and on the prefent fituation of affairs, which they both think going on badly; are convinced of the necessity of an upper house in the legislature, and dread nothing more than a mere democratical government, which they deem a species of republic, ridiculous for fuch a kingdom as France. I faid that I had often reflected with amazement, that Monsieur Necker did not assemble the states in such a form, and under fuch regulations, as would have naturally led to adopt the conflitution of England, free from the few faults which time has difcovered in it. On which Monf. Bertrand gave me a pamphlet he had published, addressed to his friend Abbé Raynal, proposing several circumstances in the English constitution to be adopted in that of France. Monf. l'Abbé Raynal remarked, that the American revolution had brought the French one in its train: I observed, that if the result in France fhould be liberty, that revolution had proved a blefling to the world, but much more fo to England than to America. This they both thought fuch a paradox, that I explained it by remarking, that I believed the prosperity which England had enjoyed since the peace, not only much exceeded that of any other fimilar period, but also that of any other country, in any period fince the establishment of the European monarchies: a fact that was supported by the increase of population, of consumption, of industry, of navigation, shipping, and failors: by the augmentation and improvement of agriculture, manufactures, and commerce; and in a peculiar mass and aggregate, slowing from the whole, the rifing cafe and felicity of the people. I mentioned the authentic documents and public registers which supported such a representation; and I found, that Abbé Raynal, who attended closely to what I faid, had not feen or heard of thefe circumstances, in which he is not fingular, for I have not met with a fingle perfon in France acquainted with them; yet they unquestionably form one of the most remarkable and fingular experiments in the science of politics that the world has feen; for a people to lofe an empire—thirteen provinces, and to gain, by that lofs, an increase of wealth, selicity, and power! When will the obvious conclusions, to be drawn from that prodigious event, be adopted? that all transmarine, or distant domi-VOL. IV. nions. nions, are fources of weakness: and that to renounce them would be wisdom. Apply this in France to St. Domingo, in Spain to Peru, or in England to Bengal, and mark the ideas and the replies that are excited. I have no doubt, however, of the tact. I complimented him on his generous gift to the fociety of agriculture at Paris, of 1200 livres for a premium; he faid they had thanked him, not in the usual form, by the fecretary figning alone, but had every one prefent figned it. He faid, that he should do the same by the academics of sciences and belles lettres; and he has given the fame fum to the academics at Marfeilles, for a premium relative to their commerce. He faid also, that he had formed a plan he should execute when he has saved money enough, which is to expend, by means of the fociety of agriculture, 1200 livres a year in purchasing models of all the useful implements of husbandry to be found in other countries, especially in England, and to spread them over France. The idea is an excellent one, and merits great praise; yet it is to be questioned, whether the effect would answer the expense. Give the tool itself to a farmer, and he will not know how to ufe it, or will be too much prejudiced to like it; a model he will still less take trouble to copy. Gentlemen farming every where their own lands, with enthufiafm and paffion for the art, would apply and use those models; but I fear that none such are to be found in France. The spirit and pursuits of gentlemen must be changed from their present frivolous turns, before any such thing could be effected. He approved of my recommending turnips and potatoes; but faid, that good forts were wanted; and mentioned a trial he had made himfelf, a comparison of the English and Provençal potatoes in making bread, and the English produced one-third more flour than the French. -Among other causes of bad husbandry in France, he named the illegality of usury; at prefent moneyed people in the country locked it up, instead of lending it for improvement. These sentiments of a justly celebrated writer do him honour; and it was pleafing to me to find, that he gave attention to objects which have almost monopolized mine; and yet more so to find, that though not young, he is in good spirits; and likely to live many years to enlighten the world by the productions of a pen that has never been employed but for the benefit of the human species.

The 8th. To Cuges. For three or four miles the road leads through rows of baftides and walls; it is made of powdered white stone, and without exception, the most dusty I ever saw; the vines, for twenty rods on each side, were like a dressed head; the country all mountains of rock, with poor pines.—Uninteresting and ugly; the plains, of no great breadth, are covered with vines and olives. Meet capers sir; the plains, of the same stored with vines and olives. Meet capers sir; at Cuges. At Aubagne, I dined on six dishes, not bad, a defert, and a bottle of wine, for 24s. and by myself too, for there was no table d'hôte. What Monf. Dutens could mean by calling the post house at Cuges a good auberge, is inexplicable; it is a miserable hole, in which I have one of the best rooms, without glass to the win-

dows.---21 miles.

The 9th. The country to Toulon is more interesting; the mountains are bolder; the sea adds to the view; and there is one passage among the rocks, where are sub-lime features. Nine-tenths are waste mountain, and a wretched country of pines, box, and miserable aromatics, in spite of the climate. Near Toulon, especially at Olioules, there are pomegranates in the hedges, with fruit as large as nonpareils; they have a few oranges also. The bason of Toulon with ranges of three deckers, and other large men of war, with a quay of life and business, are sine. The town has nothing that deferves description; the great and only thing that is worth seeing, the dock-yard, I could not see, yet I had letters; but the regulation forbidding it, as at Brest, all applications were vain.—25 miles.

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The 10th. Lady Craven has fent me upon a wild chafe to Hyeres—one would think this country, from her's and many other descriptions, was all a garden; but it has been praifed much beyond its merit. The vale is every where richly cultivated, and planted with olives and vines, with a mixture of fome mulberries, figs, and other fruit trees. The hills are either rocks, or spread with a poor vegetation of evergreens, pines, lentifeus, &c. The vale, though feattered with white bastides which animate the fcene, yet betrays that poverty in the robe of nature, which always offends the eye where olives and fruits form the principal cloathing. Every view is meagre, on comparison with the rich foliage of our northern forests. The only singular features are the orange and lemon trees; they here thrive in the open air, are of a great fize, and render every garden interesting to those who travel to the south; but last winter's frost has shorn them of their glory. They are all so nearly destroyed as to be cut almost to the root, or to the trunk, but are in general shooting again. I conjecture that thefe trees, even when in health and foliage, however they may be feparately taken, add but little to the general effect of a view. They are all in gardens, mixed with walls and houses, and consequently lose much beauty as the part of a landscape. Lady Craven's tour fent me to the chapel of Notre Dame de consolation, and to the hills leading to Monf. Glapiere de St. Tropes; and I asked for father Laurent, who was, however, very little fensible of the honour she had done him. The views from the hills on both fides of the town are moderate. The islands Portecroix, Pourcurolle, and Levant, (the nearest joined to the continent by a causeway and saltmarsh, which they call a pond,) the hills, mounts, rocks, all are naked. The pines that spread on some of them have not a much better effect than gorse. The verdure of the vale is hurt by the hue of the olives. There is a fine outline to the views; but for a climate, where vegetation is the chief glory, it is poor and meagre; and does not refresh the imagination with the idea of a thick shade against the rays of an ardent fun. I can hear of no cotton in Provence, which has been reported in feveral books; but the date and pistachio succeed: the myrtle is indigenous every where, and the jasminum, commune, and fruticans. In l'Isle de Levant is the genista candescens, and the teucrium herba poma. Returning from my ride to the hotel de Necker, the landlord worried me with a lift of English that pass the winter at Hyeres; there are many houses built for letting, from two to fix louis a month, including all the furniture, linen, neceffary plate, &c. Most of these houses command the prospect of the vale and the fea; and if they do not feel the vent de bize, I should suppose it must be a sine winter climate. In December, January, and February perhaps it may not incommode them, but does it not in March and April? There is a table d'hôte, very well ferved, at the hotel de Necker in winter, at 4 livres a head each meal. View the King's garden here, which may be ten or twelve acres, and nobly productive in all the fruits of the climate, its crop of oranges only last year was 21,000 livres (9181.15s.) Oranges at Hyeres have produced as far as two louis each tree. Dine with Monf. de St. Cefaire, who has a pretty new built house, a noble garden walled in, and an estate around it, which he would fell or let. He was fo obliging as to give me, with Dr. Battaile, much use. ful information concerning the agriculture and produce of this country. In the evening return to Toulon,——34 miles.

The rith. The arrangement of my journey in Italy occupied some attention. I had been often informed, and by men that have travelled much in Italy, that I must not think of going thither with my one-horse chaise. To watch my horse being sed would, they assured me, take up abundantly too much time, and if it were omitted, with respect to say, as well as oats, both would be equally stolen. There are also

parts of Italy where travelling alone, as I did, would be very unfafe, from the number of robbers that infelt the roads. Perfuaded by the opinions of perfons, who I fuppose must know much better than myself, I had determined to sell my mare and chaise, and travel in Italy by the veturini, who are to be had it feems every where, and at a cheap rate. At Aix they offered me for both 20 louis; at Marfeilles, eighteen: fo the further I went I expected the price would fink; but to get out of the hands of the aubergiftes, and the garçons d'écuries, who expected every where to make a property of me, I had it drawn into the freet at Toulon, with a large label, written à vendre, and the price 25 louis: they had cost me at Paris 32. My plan succeeded, and I fold them for 22; they had brought me above twelve hundred miles, but yet were a cheap bargain to an officer who was the purchaser. I had next to consider the method to get to Nice; and will it be believed, that from Marfeilles with a hundred thousand souls, and Toulon with thirty thousand, lying in the great road to Antibes, Nice, and Italy, there is no diligence or regular voiture? A gentleman at the table d'hôte affured me, they afked him 3 louis for a place in a voiture to Antibes, and to wait till fome other person would give three more for another feat. To a person accustomed to the infinity of machines that fly about England, in all directions, this must appear hardly credible. Such great cities in France have not the hundredth part of connection and communication with each other that much inferior places enjoy with us: a fure proof of their deficiency in confumption, activity, and animation. A gentleman who knew every part of Provence well, and had been from Nice to Toulon, by fea, advifed me to take the common barque, for one day, from Toulon, that I might at least pass the isles of Hyeres; I told him I had been at Hyeres, and seen the coaft. I had feen nothing, he faid, if I had not feen them, and the coaft from the fea, which was the finest object in all Provence; that it would be but one day at sea, as I might land at Cavalero, and take mules for Frejus; and that I should lose nothing, as the common rout was the fame as what I had feen, mountains, vines, and olives. His opinion prevailed, and I fpoke to the Captain of the barque for my paffage to Cavalero.

The 12th. At fix in the morning, on board the barque, Captain Jaffoirs, of Antibes; the weather was delicious; and the passage out of the harbour of Toulon, and its great bason, beautiful and interesting. Apparently it is impossible to imagine a harbour more completely fecure and land locked. The inner one, contiguous to the quay, is large, and feems formed by art; a range of mole, which it is built on, feparating it from the great bason. Only one ship can enter at a time, but it could contain a fleet. There are now lying, moored in two ranges, one ship, the Commerce of Marseilles, of 130 guns, the finest ship in the French Navy, and seventeen others of 90 guns each, with feveral finaller: in the great bason, which is two or three miles across, you feem absolutely inciosed by high lands, and it is only on the moment of quitting it, that you can guess where the outlet is, by which you are connected with the fea. The town, the flipping, the high mountain, which rifes immediately above it, the hills, covered with plantations, and foread every where with baltides, unite to form a striking coup d'ail. But as to the isles of Hyeres and the fine views of the coast, which I was to enjoy, my informant could have no eyes, or was absolutely without tafte: they are, as well as all the coaft, miferably barren rocks and hills, with pines only to give any idea of vegetation. If it were not for a few folitary houses, with here and there a square patch of cultivation to change the colour of the mountains, I should have imagined that this coast must have borne a near resemble to those of New Zealand, or New Holland --dark, gloomy, and filent; -- a favage fombre air fpread

over the whole. The pines, and ever-green shrubs, that cover the greatest part; cover it with more gloom than verdure. Landed at night at Cavalero, which I expected to have found a little town; but it conssits of three houses only, and a more wretched place not to be imagined. They spread a mattrass on a stone floor for me, for bed they had none; after starving all day, they had nothing but stale eggs, bad bread, and worse wine; and as to the mules which were to take me to Frejus, there was neither horse, ass, nor mule in the place, and but four oxen for ploughing the ground. I was thus in a pretty situation, and must have gone on by sea to Antibes, for which also the wind gave tokens of being contrary, if the captain had not promised me two of his men to carry my baggage to a village two leagues off, where mules were certainly to be had,

with which comfort I betook myself to my mattress.----24 miles.

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The 13th. The captain fent three failors; one a Corfican, another a mongrel Italian, and the third, a Provençal: among the three, there was not French enough for half an hour's conversation. We croffed the mountains, and wandered by crooked unknown paths, and beds of torrents, and then found the village of Gaffang on the top of a mountain, which, however, was more than a league from that to which we intended to go. Here the failors refreshed themselves, two with wine, but the third never drank any thing except water. I asked if he had equal strength with the others that drank wine? Yes, they replied, as firong for his fize as any other man: I rather think, that I shall not soon find an English failor who will make the experiment. No milk; I breakfaffed on grapes, rye bread, and bad wine. Mules were reported to abound at this village, or rather that which we miffed; but the mafter of the only two we could hear of being abfent, I had no other refource than agreeing with a man to take my baggage on an afs, and myfelf to walk a league further, to St. Tropes, for which he demanded three livres. In two hours reached that town, which is prettily fituated, and tolerably well built, on the banks of a noble julet of the fea. From Cavalero hither, the country is all mountain, eighteen twentieths of it covered with pines, or a poor wilderness of evergreen shrubs, rocky and miserable. Cross the inlet, which is more than a league wide; the ferrymen had been on board a king's ship, and complained heavily of their treatment -- but faid that now they were free men, they fhould be well treated; and in case of a war, they should pay the English by a different account—it would now be man to man; before it was free men fighting with flaves. Land at St. Maxime, and there hire two mules and a guide to Frejus. The country the fame mountainous and rocky defert of pine and lentificus; but towards Frejus, fome arbutus. Very little culture before the plant near Frejus. I passed to-day thirty miles, of which five are not cultivated. The whole coaft of Provence is nearly the fame defert; yet the climate would give, on all these mountains, productions valuable for feeding fleep and cattle; but they are incumbered with fhrubs abfolutely worthlefs. The effect of liberty had better appear in their cultivation, than on the decks of a man of war.——30 miles.

The 14th Staid at Frejus to rest myself;—to examine the neighbourhood, which, however, contains nothing—and to arrange my journey to Nice. At Frejus are remains of an amphitheatre and aqueduct. On enquiring for a voiture to go post, I found there was no such thing to be had; so I had no resource but mules. I employed the garçon d'écurie (for a postmaster thinks himself of too much consequence to take the least trouble), and he reported, that I should be well served for twelve livres to Ethrelles; this price for ten miles, on a miserable mule, was a very entertaining idea; I bid him half the money; he assured me he had named the lowest price, and left me, certainly thinking me safe in his clutches. I took a walk round the town to gather some

plants that were in bloffom, and meeting a woman with an afs-load of grapes, I afked her employment; and found, by help of an interpreter, that the carried grapes from vineyards for hire. I proposed loading her ass to Estrelles with my baggage—and demanded her price.—40 sols. I will give it. Break of day appointed; and I returned to

the inn, at least an occonomist, faving to livres by my walk.

The 25th. Myfelf, my female, and her afs jogged merrily over the mountains; the only misfortune was, we did not know one word of each other's language; I could just discover that she had a husband and three children. I tried to know if he were a good hufband, and if the loved him very much; but our language failed in fuch explanations; --- it was no matter; her als was to do my bufiness and not her tongue. At Eftrelles I took post horses; it is a single house, and no women with asses to be had, or I should have preferred them. It is not easy for me to describe, how agreeable a walk of ten or fifteen miles is to a man who walks well, after fitting a thousand in a carriage. To day's journey all through the fame bad country, mountain beyond mountain, incumbered with worthless evergreens, and not one mile in twenty cultivated. The only relief is the gardens at Graffe, where fingular exertions are made. Rofes are a great article for the famous otter, all of which is commonly supposed to come from Bengal. They fay that fifteen hundred flowers go to a fingle drop; twenty flowers fell for one fol, and an ounce of the otter 400 livres (171, 10s.). Tuberofes, &c. are also cultivated for perfumes in immense quantities, for Paris and London. Rosemary, layender, bergamot, and oranges, are here capital articles of culture. Half Europe is supplied with effences from hence. Cannes is prettily fituated, close on the shore with the ifles of St. Marguerite, where is a deteflable flate prison, about two miles off, and a diftant boundary of the Eftrelles mountains, with a bold broken outline. These mountains are barren to excess. At all the villages fince Toulon, at Frejus, Eftrelles, &c. I asked for milk, but no such thing to be had, not even of goats or sheep; the cows are all in the higher mountains; and as to butter, the landlord at Effrelles told me, it was a contraband commodity that came from Nice. Good heaven!—what an idea northern people have, like myself, before I knew better, of a fine fun and a delicious climate, as it is called, that gives myrtles, oranges, lemons, pomegranates, jafmins, and aloes, in the hedges; yet are fuch countries, if irrigation be wanted, the verieft deferts in the world! On the most miserable tracts of our heaths and moors, you will find butter, milk, and cream; give me that which will feed a cow, and let oranges remain in Provence. The fault, however, is in the people more than the climate; and as the people have never any faults (till they become the mafters), all is the effect of government. The arbutus, laurustinus, cistus, and Spanish broom, are found feattered about the wastes. Nobody in the inn but a merchant of Bourdeaux returning home from Italy; we supped together, and had a good deal of conversation, not uninteresting; he was melancholy to think, he faid, what a fad reputation the French revolution has wherever he has been in Italy. Unhappy France! was his frequent ejeculation. He made many inquiries of me, and faid, his letters confirmed my accounts; the Italians feemed all convinced that the rivalry of France and England was at an end, and that the English would now have it in their power amply to revenge the American war, by feizing St. Domingo, and indeed all the possessions the French have out of France itself. I said the idea was a pernicious one, and so contrary to the personal interests of the men who governed England, that it was not to be thought of. He replied, that if we did not do it, we should be marvellously forbearing, and fet an example of political purity fufficient to eternize that part of our national character, in which the world thought us most deficient, moderation. He complained bitterly of

the conduct of certain leaders of the National Affembly, who feemed to be determined on a bankruptcy, and perhaps a civil war.——22 miles.

The 16th. At Cannes I was quite without a choice; no post-house, carriage, nor horses, nor mules to let; I was therefore forced again to take refuge in a woman and her ass. At five in the morning I walked to Antibes. This line of nine miles is chiefly cultivated, but the mountains rife fo immediately, that, in a general idea, all is wafte. Antibes, being a frontier town, is regularly fortified; the mole is pretty, and the view from it pleafing. Take a post-chaile to Nice; cross the Var, and bid adieu for the present to France. The approach to Nice is pleafing. The first approach to that country fo long and juftly celebrated, that has produced those who have conquered, and those who have decorated the world, fills the boson with too many throbbing feelings to permit a bush, a stone, a clod to be uninteresting. Our percipient faculties are expanded; we wish to enjoy; and then all is attention, and willingness to be pleased. The approach marks a flourishing town; new buildings, the never-failing proof of prosperity are numerous. Pass many gardens full of oranges. Arrive in time for dinner at the table d'hôte, i lotel de Quatre Nations, and agree with the master of it for my apartment, which is exceedingly good, and dinner and supper at five Piedmontese livres a-day, that is five shillings. Here I am, then, in the midst of another people, language, fovereignty, and country—one of the moments of a man's life that will always be interesting, because all the springs of curiosity and attention are on the stretch. Several Frenchmen, but more Italians, at the table d'hôte; and the French revolution only talked of. The Frenchmen all in favour of it, and the Italians all against it, and abso-

lute victors in the argument. ---- 25 miles.

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The 17th. I have no letters for Nice; and therefore, knowing nothing of the infides of the houses, I must be content with what meets the eye. The new part of the town is very well built; the streets strait and broad. The fea-view is fine, and for enjoying it in greater perfection, they have an admirable contrivance, which I have feen no where elfe. A row of low houses forming one side of a street, a quarter of a mile long, has flat roofs, which are covered with a flucco floor, forming a noble terrace, open immediately to the fea, raifed above the dirt and annoyance of a street, and equally free from the fand and shingle of a beach. At one end some finely situated lodging-houses. The walk this terrace affords is, in fine weather, delicious. The fquare is handfome, and the works which form the port are well built, but it is fmall and difficult to enter, except in favourable weather; admits ships of near three hundred tons; yet, though free, has but an inconfiderable trade. The number of new fireets and houses building at prefent is an unequivocal proof that the place is flourishing, chiefly on the account of the refort of foreigners, principally English, who pass the winter here, for the benefit and pleafure of the climate. I hey are difinally alarmed at prefent, with the news that the disturbances in France will prevent many of the English from coming this winter; but they have some confolation in expecting a great resort of French. Last winter, there were fifty-leven English, and nine French; this winter, they think it will be nine English, and fifty-feven I reach. At the table d'hôte informed, that I must have a passport for travelling in Italy, and that the English conful is the proper person to apply to. I went to Mr. Corful Green, who informed me that it was a miftake, there was no want of any paffpore; but if I wished to have one, he would very readily give it. My name occurring to him, he took the opportunity to be very polite to me, and offered any thing in his power to affilt me. On my telling him the object of my travels, he remarked, that the gardens here, and mixture of half garden and half farm, were rather fingular, and if I called on him in the evening, he would walk and shew me some. I accepted

accepted his obliging invitation, and when I went again, met a Colonel Rofs, a gentleman from Scotland, fecond in command in the King of Sardinia's marine, and at prefent in chief: having been much in Sardinia, I made fome enquiries of him concerning that island, and the circumstances he instanced were curious. The intemperia is fo prevalent in fummer, from the quantity of evaporating water leaving mud exposed to the fun, as to be death to a stranger: but in winter it is a good climate. The foil wonderfully rich and fertile, but vall plains that would produce any thing are uncultivated. He has past one line of fifty miles by thirty, all plain and the land good, yet without one house, and mostly a neglected defert. The people are wretched, and deplorably ignorant: there are diffricts, he has been informed, where there are olives, and the fruit left rotting under the trees, for want of knowing how to make oil. In general, there are no roads, and no inns. When a traveller, or other person, goes into the island, he is recommended from convent to convent, or curé to curé, fome of whom are at their eafe; you are fure to be well entertained, and at no other expense than a trifle to the fervants. The plenty of game and wild-fowl great. The horfes are finall, but excellent; all stallions. One has been known to be rode four-and-twenty hours without drawing bit. I demanded to what could be attributed fuch a neglected flate of the island? To government, I suppose? By no means; government has manifested every disposition to set things on a better footing. It certainly arises from the feudal rights of the nobility, keeping the people in a flate of comparative flavery. They are too wretched to have the inducement to industry. Such is the case at present in many other countries besides Sardinia. When I see and hear of the abominable depredations and enormities committed by the French peafants, I detelt the democratical principles; when I fee or hear of fuch wastes as are found in Sardinia, I abhor the aristocratical ones. Accompany Mr. Green to view fome gardens, which have a luxuriance of vegetation, by means of watering, that makes them objects worth attention; but the great product, and a most valuable one it is, are oranges and lemons; chiefly the former, and a few bergamots for curiofity. We examined the garden of a nobleman, fomething under two acres of land, that produces thirty louis d'or a-year in oranges only, besides all the crops of common vegetables. The great value of these products, such is the perversity of human life, is the exact reason why such gardens would be detestable to me, if under the economical management of the gentry of Nice. An acre of garden forms an object of fome confequence in the income of a nobleman who, in point of fortune, is reckoned in good circumflances, if he has 150l to 200l a year. Thus the garden, which with us is an object of pleasure, is here one of economy and income, circumstances that are incompatible. It is like a well furnished room in a man's house, which he lets to a lodg. ger. They fell their oranges fo strictly, that they cannot gather one to eat. A certain momentary and careless confumption is a part of the convenience and agreeableness of a garden; a fystem, which thus constrains the consumption, destroys all the pleasure. Oranges may certainly be fold with as much propriety as corn or timber, but then let them grow at a distance from the house; that open apartment of a residence, which we call a garden, should be free from the shackle of a contract, and the scene of pleasure,

The 18th. Walked to Ville Franche, another little sca-port of the King of Sardinia's, on the other side of the mountain, to the east of Nice. Call on Mr. Green, the conful, who has given me letters to Genoa, Alexandria, and Padoua: he has behaved with so friendly an attention, that I cannot omit acknowledging warmly his civilities. Learn this morning from him that Lord Bristol is somewhere in Italy, and that Lady Erne is

probably at Turin; my stars will not be propitious if I do not fee them both,

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The 10th. I have now waited two days merely for the means of getting away; I can go either by a felucea to Genoa, or with a vetturino to Turin; and there is fo much for and against both schemes, that priority of departure is as good a motive for a preference as any other. If I go by Genoa to Milan, I fee Genoa and a part of its territory, which is much, but I lose fixty miles of superb irrigation, from Coni to Turin, and I lose the line of country between surin and Milan, which I am told is better than that between Genoa and Milan; as to Turin itfelf, I should see it in my return. But here is Luigi Tonini, a vetturino, from Coni, who fets out on Monday morning for Turin, which decides me; fo with Mr. Green's kind affiftance I have bargained with him to take me thither for feven French crowns. He has got two officers in the Sardinian fervice, and is not to wait longer for filling the third place. We have every day, at the table d'hôte, a Florentine Abbé, who has been a wonderful traveller—no man names a country which he has not traverfed; and he is fingular in never having made a note, making rather a boast that his memory retains every particular he would wish to know, even to numbers correctly. The height and measures of the pyramids of Egypt, of St. Peter's church at Rome, and St. Paul's at London, &c. with the exact length and breadth of every fine street in Europe, he has at his tongue's end. He is a great critic in the beauty of cities; and he classes the four finest in the world thus, 1. Rome.— 2. Naples.—3. Venice.—4. London. Being a little inclined to the marvellous, in the idea of an old Piedmontese colonel, a knight of St. Maurice, a plain and unaffected character, and apparently a very worthy man; is piqued at the authority of Signore Abbate, to the amusement of the company.

The 20th, Sunday. Mr. Conful Green continues his friendly attentions to the last; I dined, by invitation, with him to day; and, for the honour of Piedmontese grazing, ate as fine, fweet, and fat a piece of roaft beef as I would ever wish to do in England, and fuch as would not be feen at the table d'hôte at the quatre nations in feven years—if in feven ages. An English master and mistress of the table, with roast beef, plumb pudding, and porter, made me drop for a moment the idea of the formidable distance that feparated me from England. Unknown and unrecommended at Nice, I expected nothing but what could be shot slying in any town; but I found in Mr. Green, both hospitality, and fomething too friendly to call politeness. In the evening we had another walk among gardens, and conversed with some of the proprietors on prices, products, &c. The defcription Mr. Green gives me of the climate of Nice in the winter is the most inviting that can be imagined; a clear blue expanse is constantly over head, and a fun warm enough to be exhilarating, but not hot enough to be difagreeable. But, Sir, the vent de bize! We are sheltered from it by the mountains; and as a proof that this climate is by far more mild than where you have felt that wind, the oranges and lemons which we have in fuch profusion will not thrive either in Genoa or Provence, except in a very few spots, fingularly sheltered like this. He remarked, that Dr. Smollet, in his description, has done great injustice to the climate, and even against the feelings of his own crazy constitution; for he never was so well after he left Nice as he had been at it, and made much interest with Lord Shelburne to be appointed conful, who told him, and not without fome foundation, that he would on no account be fuch an enemy to a man of genius;—that he had libelled the climate of Nice fo feverely, that if he were to go again thither the Niffards would certainly knock him on the head. Mr. Green has feen hay made, and well made, at Christmas.

The 21st. Commenced my first Italian journey; of my two military companions, one was as stupid as a brick-bat, and the other too lively for me:—there are few things more repugnant to my nerves than the vivacity of inanity;. I am not young enough for it.

Here was also a friar, who made no compensation for the deficiencies of his countrymen:
—low, vulgar, and ignorant; could speak no French, and but little Italian: I looked in vain for so many of his Piedmontese words in my dictionary, that I was soon tired of following him. We dined at Scareno, and slept at Sospello, at both which places we joined the company of another vetturino, consisting of the Piedmontese colonel I had met at the table d'hôte, his brother an abbé, and another abbé a friend, all well bred polite men, who were very attentive to me as a foreigner, and had great readiness to answer all my enquiries: I reaped a good deal of information from their conversation. The three first days of this journey are employed in crossing three mountains; to-day we passed the Col de Pruss. The features in the heights are interesting, wild, and great.

The descent to Sospello is picturesque ----26 miles.

The 22.1. My friend, the old Piedmontese colonel, commends the English character greatly, when it is truly English; that is, as I guest do by his explanations, when it is not a hurrying, bustling, expensive young man of great fortune, against whom he threw out some fevere reflections. He desired my name, and where I lived in England, which he begged me to write down for him; and commended very much the object of my journey, which appeared so extraordinary to him, that he could not help putting many questions. The mountain we crossed to-day is yet more favage than that of yesterday; much of it wild and even subline. The little town of Saorgio and its castle are fituated most romantically, stuck against the fide of a mountain, like a swallow's nest against the fide of a house. I had no opportunity of asking how many necks are broken in a year, in going peaceably to and fro; but the blackness of this town, and the total want of glass, make it gloomy as well as romantic; indeed the view of all these mountain-towns, where there may be so much happiness with so little appearance of it, is forbidding. Tende, which is the capital of a district, and gives name to this great ridge of mountain. Col de Tende,) is a horrid place of this fort, with a vile inn; all black, dirty,

flinking, and no glafs. _____30 miles.

The 23d. Out by four in the morning, in the dark, in order to cross the Col de Tende as foon after break of day as possible, a necessary precaution they fay, as the wind is then most quiet; if there be any storm, the passage is dangerous, and even impracticable; not fo much from height as from fituation, in a draught of wind between Piedmont and the fea. The pass in the rocks, for some distance before mounting the hill, is fublime; hemmed in among fuch enormous mountains and rocks, that they reminded me a little of the amazing pass in the Pyrences, but are much inferior to it. In the face of one of them is a long infeription to the honour of Victor Amadeus III. for making the road; and near it an old one, purporting that the eleventh duke of Savoy made the old road, to connect Piedmont and Nice, à proprie spese con tutta diligenza. This old road is pallable by mules only, and is that by which Mr. Dutens palled the Col de Tende. I shall observe once for all, that the new one is a most useful and princely undertaking. From within a few miles of Nice, where it is not finished, to Limon cost 3,500,000 livres, (175,000l.) It winds prodigiously, in order to pass the steepest mountains, in fuch angles as to a limit carriages without difficulty. The worst part is that which goes up to the Col de Tendo; this has not been made with equal attention as the reft, perhaps because they have begun to execute a vast defign of perforating the mountain. At prefent, not vithilanding the goodness of the road in summer, it is abfolutely impaffable in winter for currages, and with difficulty fometimes even with mules, by reafon of the immense fails of show. They have opened a cavern like a vault of rock, about thirty trebulchi long, and wide enough for carriages to pass, but it foon divides into two pallages, one for going and another for returning, which is n:

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found cheaper than one large enough for both; the whole will be above five hundred trebulchi, and will demand fuch an expense as leaves little hope of feeing it executed in this century. Take the new road, however, for all in all, and it is a work that does honour to the king and country. Defcend into the rich and beautiful vale of Piedmont, a few miles before Coni, and between the Alps and Appenines, which here feparate, one range running from hence to Calabria, I believe uninterruptedly, and the other to Constantinople. Amongst the maps never made, but much wanted, is one of the mountains of Europe, to thew at one coup d'œil which are connected, and which separate: this feparation of the Alps and Appenines is fo narrow, that they would, on a map on any scale, appear as one range; they connect with all the mountains of France, by Dauphine, Vivarais, and Auvergne, but not with the Pyrences: I have myfelf travelled the whole range of those from sea to sea. Queere, do they connect with Germany, Poland, &c.? Perhaps they may with those of the hereditary dominions of the House of Austria. This would make but two ranges of mountains on the continent of Europe, the Alps and the Pyrenees; for all the Spanish connect with the latter, unless those of Norway and Sweden do not join the Ruslian, Polish, &c. Reach Coni, which is strongly fortified, and well situated; but as for inns, the Croce Bianca, which they speak of as being excellent, afforded me a good room enough, but without a fingle pane of glafs in the windows, only ragged paper - and fuch a commodité - let me drive the recollection from my memory! Here we loft the company of the old colonel, his brother, and friend; they went five miles further, to the effate of one of them at Centelle. Sup at the table d'hote. Our landlady is a tall well looking virago; the officers made love to her with one hand, while they supped with the other. They then asked me a thousand questions about English duelling. Was it in a circle? At what distance? On horseback? With what pistols? &c --- 37 miles.

The 24th. The friar and one of the officers proceeded no further; the other and myfelf for Turin. On leaving Coni, the view from the fortifications of the Alps is very fine; a range of them, capped with fnow, is now feen by us to the left; Mont Vifo among them very high. At Centalle we were stopped by the fervant of my friend, the colonel, who had orders to conduct us to the house of the cure, to take chocolate. The brother of the colonel is, it feems, cure and archiprêtre of the parish. It was impossible to be received with more kindness and hospitality than I was here. The colonel started a plan for keeping us to dinner, and his brother immediately begged we would change our intention of fleeping at Carignan for Racconis, which would enable us to dine with him. To this we readily affented. I now found, that the colonel was the Chevalier Brun, on a vifit to his brother, who has built an excellent parfonage-house, as we should call it, at his own expence, and has two curées under him as archiprètre; he has archhospitality also; gave us an admirable dinner, well ferved, and excellent wine, and wished I would make a longer stay. As this was the first Italian house I had been in, except inns, it was interesting enough to excite all my curiofity and attention. Expressing a wish to have some conversation with a practical cultivator, they had the goodness to walk with me to the Count de Bonifante, who lives on his own effate here, and farms it. I foon found that this nobleman loved the fubject; for he feemed to take a pleafure in answering my enquiries. We walked over his, and some of his neighbours' farms for more than two hours; and though my questions were pretty numerous, he was so kind as to meet them with the utmost willingness of explanation. If I have many such days as this in Italy, I shall be equally well pleafed and informed. Centalle was the refidence of the Marquis de Suza. Take my leave of this agreeable and hospitable family, which I finall long remember with pleafure. Pass Savignan, a confiderable and H H 2 pretty

pretty town; and what is much better to my eyes, a fine range of level plain, all rich and much watered. The feene in fome places is charming: the road is like a fine alley, paffing through a new mown garden; the meadows are as level as a die, without a mole-caff, or art-hill; thanks to watering! The mowing neat; the hay now cocking; rows of trees every where, and not being in strait lines, the appearance is pleasing. It is an observation I have more than once made, and it is no where so exemplified as in this country, that there are beauties resulting from extreme fertility that belong to a stat which would be hurt by inequalities of soil. The approach to Racconis is by a double row of trees on each side of the read, with two shady paths, very pleasing even by moon-light; but my stillow-trayeller, with his drawn sword, ready to pals at the breast of a robber, should any attack us, did not people these shades with the most agreeable sigures of the sancy. He says there are many robbers in Piedmont; and that travelling in the dark is always dangerous. Such things are to be bid to the account of government; and a pretty store it is on despotism, not to be able to keep its roads clear from robbers. At Racconis, a great trade in winding silk; a beggarly inn—paper

windows, &c. -- 7 miles.

The 25th. Pursuing our road, pass a country feat of the Prince of Carignan, with a great inclosure of plantation, and many Lombardy poplars. Cross the Po by a most commodious ferry; a platform on two boats; the coach drove on and off without our moving. Why have we not such ferries in England? All a rich level country till we come near the mountain of Turin, and pass the chatcau of Moncaglia, the present refidence of the Count d'Artois. Reach Turin; drive to the Hotel Royal; all full. To the hotel d'Angleterre; all taken for the Prince of Condé. To the Bonne Femme, where a good landlady received me. I was in time for the table d'hôte, at which were feveral French refugees, whose accounts of affairs in France are dreadful. These were driven from their chateaus, fome of which were in flames; it gave me an opportunity of enquiring by whom fuch enormities were committed; by the peafants, or wandering brigands? they faid by peafants, undoubtedly; but that the great and indifputable origin of most of those villanies, was the fettled plan and conduct of some I aders in the National Assembly, in union with, and by the money of, one other person of great rank, who would deferve the eternal execuations and reproaches of all true Frenchmen and every honelt man: that when the affembly had rejected the propofal of the Count de Mirabeau, to addrefs the King to establish the milice bourgeoife, couriers were foon after fent to all quarters of the kingdom, to give an universal alarm of great troops of brigands being on the actual march, plundering and burning every where, at the infligation of ariflocrats, and calling on the people to arm immediately in their own defence: that by intelligence afterwards received from different parts of the kingdom it was found, that these couriers must have been dispatched from Paris at the same time .. Forged orders of the King in Council were likewife fent, directing the people to burn the chateaus of the arillocratical party: and thus, as it were by magic, all France was armed at the fame moment, and the peafants infligated to commit the enormities which have fince difgraced the kingdom.——22 miles.

The 26th. This being the first Italian city of renown for beauty that I have feen, I have been all eyes to-day. Some travellers have represented it as the prettiest town in Europe, and the Strada di Po the finest street. I hurried to it with eagerness. I was in the middle of it, asking for it. Questa, questa! replied an officer, holding up his

^{*} Afterwards at Paris this fact was confirmed to me.

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hands, as if to point out an object of great beauty which I did not fee, and in truth I faw it not. It is firait and broad, and nearly regular. Two rows of brick barns might be fo equally. The houses are of an ugly obfuscated brick; a few have stucco, and that old and dirty: the feaffold holes in the walls of all the r.A are left unfilled; fome of them are enlarged by time, and feveral courfes of bricks between those holes, not pointed, which has as bad an effect; the windows are narrow and poor; fome with iron balconies, fome without; the arcades, for there is a row on each fide of the ftreet, would alone be deffructive of beauty: the arches are plaiftered, which patches the line with white: and through them are exhibited nothing but poor flops that incumber their fpans with ad forts of lumber; the lamps are fifty or fixty yards afunder. In a word, there are fifty fireets at London to which this cannot be compared. If those who have travelled in Italy think this street fine, what am I to meet with in other towns? The Strada della Dora Grossa is by far a siner street than that of the Po, but the houses are greatly too high. There is a beautiful area to entrance to the herb-market, which feems to have furnished the idea of that at the n w buildings of Somerfet house. The streets are almost all quite regular, and at right angles. I expected that this circumflance would have been attended with much more beauty than it is. It gives too great a famoness; the constant return of the same angles tires the eye; and I am convinced, that a city would be much more striking, and more admired, that had varied lines inflead of uniform ones. Circles, femi-circles, crescents, semi-clipses, squares, semifquares, and compounds, compoted of thefe, mixed with the common oblongs, would give a greater air of grandeur and magnificence. The most splendid object I have feen at Turin is the stair-case and saloon in the chateau contiguous to the royal palace. — There is nothing at Verfailles, except the gallery, to be compared with it. The front of this edifice is fine, and the whole does honour to Juvara. This morning I should have delivered my letters, but am unlucky. The Marchefe de Palavicino, prefident of the Agrarian Society, and Signore Biffatti, the fecretary of it, are both in the coun-Signore Capriata, the prefident en fecond, I met with, but he is no practical farmer; he has been obliging enough, however, to promife me an introduction to fome perfons who are converfant with agriculture. Meeting with these disappointments, I began to fear I might want the intelligence that was necessary to my defign; and be in that ineligible fituation of feeing only the outfides of houses, and knowing nothing of the perfons within. With time thus on my hands, I enquired for a bookfeller, and was directed to Signore Briolo, who prints the memoirs of all the learned bodies here; among others, these of the Agrarian Society, which I bought, and afterwards turning over, found that I made a pretty confpicuous figure in one written by the Cavaliere di Capra, colonel of the regiment of Tortona, on the fize of farms. He is a bitter enemy to large ones; not content with firstures on Piedmont, he preses England into his fervice, and finds it necessary to refute me, as I appear in the translation of Monf. Freville, from which he quotes passages which I never wrote. I wished to assure the author that it was the French translator, and not the English farmer that he had refuted. laughed very heartily with Signore Capriata at this adventure of the memoirs. In the evening to the opera; the theatre is a fine one, though not the principal; the house nearly full, yet all the world is in the country.

The 27th. The Cavaliere Capra having feen Signore Capriata, I this morning received a vifit from him: I was glad of an opportunity to remark to him that he had quoted passages erroneously from my Political Arithmetic. He said, he was forry he should misunderstand me; and beginning at once to declaim against great farms, I begged to remark, that my opinion was exactly the same at present as it had always

been, that the fize of farms should be left absolutely free. He was violent against great ones in Picdmont, which he faid ruined and depopulated the country, as I should find when I came among the rice-grounds in my way to Milan. Signore Capra was polite, tendered me every fervice in his power, and expressed the utmost readiness to assist my enquiries. Signore Briolo, as foon as he understood who I was, shewed me every attention in his power; and that I might have the benefit of converfing with fuch perions ts he thought most fuitable to my enquiries, he made known my arrival to Signore Fortana, a practical chemist and deputy secretary to the Agrarian Society; to Signore Gio. Piet. Mariadana, profesior of botany in the university; to Signore il Dottore Bumiva, his affiftant, who travelled in France and Eugland as a naturalift. From these gentlemen I had this morning a vifit, and an interesting conversation on the present agricultural flate of Italy. To Signore Briolo I was also indebted for an introduction to Signore Giobert, academician, and of the Agrarian Society, who has gained a prize by a memoir on the quality of earths and manures. Viewed the King's palace, not fo splendid as to raife difagrecable emotions in the breaft of a philosophical spectator; and no marks of provinces having been opprefled to raife it. Of the pictures, which are numerous, those which pleased me best, are a virgin, child, and St. John, by Lorenzo Sabattini; Apollo flaving Marfias, by Guido; a Venus, by Carlo Cignani; a fick woman, by Gerard Dow; a virgin and child after Rapael, by Saffa Ferrata. Vandyke shines greatly in this collection; there are the children of Charles I. finely done; a man and woman fitting; but above all, Prince Tomarafo di Carignano on horfeback, which for life and force of expression is admirable. In the evening to the opera, and being Sunday the house was full. The Lasca Fiera; there is a pretty duet, between Contini and Gafpara, in the first act.

The 28th. Walked to Moncaglia early in the morning. The palace is boldly fituated on a hill, the Windfor of Piedmont:—commands noble views of the Po, and a rich feene of culture. After dinner, on horfe back to Superga, the burying place of the royal family; where the bodies of these princes repose more magnificently than the Bourbons at St. Denis. The view from the tower is, I suppose, the finest farmer's prospect in Europe. You look down on much the greater part of Piedmont as on a map, and the eye takes in Milan at eighty miles distance; the whole, with such an horizon of mountains, as is no where else to be found,—for the enormous masses of

fnow, which the Alps prefent, are eafier conceived than described.

The 29th. Signore Briolo was this morning my conductor to Gruliafcho, to view the farm, by appointment of Signore Bracco, to whom Signore Capriata had spoken for that purpose; we walked by the nobly planted road that leads to Suza, and I was glad to find, that my Turin bookfeller was a farmer, though à la metà, and answered those useful enquiries, which I have long found abundantly convenient, always to have ready arranged in my head, and adapted to the people into whose hands chance may throw me. We dired together at the village, in a villainous hole, much better adapted to offend the fenses than to gratify them. Our repatt finished, we fallied forth to find Signore Bracco; he fliewed us feveral watered meadows, and explained all the particulars; after which, coming to the house, lo! instead of a farmer or metayer, as lexpected, I found a large house, in a style superior to any farm one, and that he was a bailiff to a Signore, I do not know whom, jeweller to the King and court; an awkward explanation of this came on, and then I found this perfor knew of my coming two days before: - to mend the matter, after making us wait fome time he shewed himself. I was preffed to enter: — whether it were, that a hot walk, or a bad dinner had fretted me, or, in fine, that I did not like the jeweller's phyfiognomy, I know not, but I begged to be excufed, and perfifted in my refufal. A rich citizen at his country villa is to me a formidable animal. Had he faid he was a farmer, and would converte on the fubject, or any thing of that tendency, it had been otherwife; but I departed brufqument, with a character, I believe, molto felvaggio. In the evening fome beautiful paf-

fages in the Paftorella Nobile brought me into better temper.

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The 30th. The intendant Bifarti returned to Turin, and I had the pleafure of a vifit from him; he carried me to the university, and some other places which I had not seen before; Signore Capra alfo, and Dr. Buniva favoured me with their company. The knight, I find, is as complete a croaker as coult ever iffue from the school of Dr. Price himself. Piedmont furnishes an instance, which if I had touched upon to Signore Capra, he would have prefied the his fervice on the question of farms. But there are not many circumstances more curious in politics, than the contrast between great and finall dominions. Here is a court fufficiently fplendid; a palace well kept; an army (not equally well kept) of thirty thousand men; fortifications many, and among the first in the world, and a power of receiving with hospitality and splendor the princes of the blood of France; all this is done with thirty millions of French money; if the comparison had been made in the late king's reign, the circumstances would have been stronger. The King of France had fix hundred millions; that is to fay, twenty times as much: he could, therefore, with equal proportions, have twenty such palaces, or more exactly an hundred, as there are five in Picomont; twenty fuch courts, and an army of fix hundred thousand men. But instead of this, the difference between the palaces of the two Kings and their courts, their parade and their vanity, is not in the ratio of one-fourth of their revenue; and as to the army of the King of Sardinia (proportions preferved), it is fix times more powerful than that of the King of France: but the contrast goes further; for, while the debts of this country are inconsiderable, those of France are fo great, that the deficit alone is more than five times the whole revenue of Sardinia.

October 1st. The political state of Piedmont at present depends almost entirely on the personal character of the King, who is esteemed an easy good natured man, too much imposed on by a set of people without merit. The consequence of which is, that talents and all forts of abilities, instead of being in the posts for which they are qualified, are found only in retirement. I am told, that he often takes bank-notes in his pocketbook, and at night, if he have not given them away, expresses uneafines; yet this is with an empty treasury, and an incomplete ill-paid army. This conduct is remarkably different from that of the princes his Majesty's predecessors, who, as all the world knows, were good economists, and kept themselves so well prepared, that they were able to turn opportunities to their notable advantage, which must have passed barren of events under a different fyftem of government. The King's motives, however, are excellent, and no faults are found with his government that do not flow from that fort of goodness of heart which better besits a private station than a throne. Similar errors are not expected from the prince of Piedmont, who is represented as a man of good understanding, with, however, rather too great a tincture of religion. Nothing can be more regular and decent than the conduct of all the court; no licentious pleatures are here countenanced; and very little that looks like diffipation. How the Count d'Artois passes his time is not casy to conceive; for a prince who was dying with ennui in the midft of Verfailles, for want of pleafures that had not loft their lattre, one would fuppose that of all the courts in Europe there was scarcely one to be sound less adapted than this to his feelings, whatever it might be to his convenience. The

The 2d. To Verceil, by a vetturino; I find but one agreeable circumstance in this way of travelling, which is going as flow and stopping as often as you please: I walked most of the way, and generally out-walked the coach, except when there was any little descent. A gentleman, a proprietor and cultivator of rice near Verceil, supped

with us who was communicative. ____4; miles.

The 3d. To Novara much rice; fome yet uncut; they are threshing it every where, and we meet gleaners loaded with it; a naity country, as ill to the eye as to the health: there hang the limbs of a robber in the trees, in unifon with the sombre and pestiferous aspect of a flat woody region. Cross the Tesino, deep, clear, and rapid. This river parts the dominions of the King of Sardinia from those of the Emperor. At Bussalva cross the naviglio grande, the greatest canal for irrigation that was ever made. Sleep

at Magenta. _____ 30 miles.

The 4th, Sunday. Reach Milan in the forenoon. This great city stands in the midst of a dead level country, fo thickly planted that you fee nothing of it till you are in the To the Albergo del Pozzo, in time to wait on the Abbate Amoretti, fecretary of the Patriotic Society, to whom I had letters from Monfieur de Brouffonet and Signore Songa of London: I found the Abbate admirably well lodged, in the palazzo of the Marquis de Cufani: this, faid I to myfelf, looks well, to find a man of letters in a fplendid apartment, and not poked, like a piece of lumber, into a garret: it is a good feature in the Italian nobility. I entered his apartment, which is a cube of about thirty feet, from a great faloon of forty or fifty. He received me with eafy and agreeable politeness, which impresses one at first fight in his favour. Soon after he returned my visit. I find him an agreeable, well-informed, and interesting character. Waited also on the Abbate Oriani, aftronomer royal, who expressed every wish to be of use to me. At night to the opera; a most noble theatre; the largest as well as handsomest I have seen; the seenes and decorations beautiful. Though it is Sunday, I look with amazement at the house, for it is three parts full, even while much of the world are in the country;—how can fuch a town as Milan do this? Here are fix rows of boxes, thirtyfix in a row; the three best rows let at 40 louis d'or a box. This is marvellous for an inland town, without commerce or great manufactures. It is the plough alone that can do it. I am delighted with the accommodation of the pit; one fits on broad eafy fophas, with a good space to stir one's legs in: young persons may bear being trusted and pinioned on a row of narrow benches, but I am old and lazy, and if I do not fit at my eafe, would not care to fit there at all.——10 miles.

The 5th. In the morning, deliver letters to Signore Bignami and Vassali, and the Messieurs Zappas, gentlemen in commerce, from whom I might receive information relative to the exports, &c. of the Milanese. At noon, to the Society of Agriculture (called the Patriotic Society), which fortunately for me, who am a member, had a meeting to-day: the Marchese di Visconti in the chair, with ten or a dozen members present, to all of whom Signore Amoretti introduced me. I never expect much from societies of this fort; but this of Milan was to-day employed on a button and a pair of seissors: it seems they want at this city to make the sincer forts of hardware, in order to rival those of England, and lessen the import, which, in spite of every obstacle is very great: the idea originates with the government, and is worthy of its little ideas; a true peddling spirit at present throughout Europe. An artist in the town had made a button and half a pair of seissors, one half English, and the other half of his own manufactur; for which he claimed and had a reward. Similar are the employments of societies every where! In England, busied about rhubarb, filk, and drill ploughs:

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at Paris, about fleas and butterflies;—and at Milan, about buttons and fciffors! hope I shall find the Georgofili at Florence employed on a top-knot. I looked about to fee a practical farmer enter the room, but looked in vain. A goodly company of i Marchesi, i Conti, i Cavalieri, i Abbati, but not one close clipped wig, or a dirty pair of breeches, to give authority to their proceedings. We met, in what was the Jefuits' college, in the Brera, a noble building, containing many apartments equally fplendid and convenient. The Marchese Visconti asked me to his country seat; and the Cavaliere Castiglioni, who has travelled in America with the views of a natural historian, and who intends to print the journal of his voyage, hopes to meet me foon at his brother the Count's. Milan has been represented as very dear, and may be so when no thought is taken to fave expence, ordering what you want, and leaving the bill to the hoft; but as fuch methods do not agree with my purfe, I pay by agreement, for my room, dinner and supper served in it, as there are few tables d'hôtes in Italy, 6 livres of Milan a-day, or an ecu, equal to 4s. English. The pit at the opera, is 2 livres of, and coffee for breakfast 7/. in all about 5s. 8d. a-day; but seeing buildings, &c. adds fomething. I am very well ferved for this, except in foups, which are detellable, for I hate macaroni and abominate paste. I have read so much of the horrors of Italian inns, that I am very agreeably furprized to find them in the great towns, Turin and Milan for instance, as good as in France; yet I am not at the best here, - for I understand the Alberghi Reale and Imperiale are the first; and I was not at the best at Turin. But village ones between the great towns are bad enough. In France, one is rarely waited on at inns by men; in Italy, hitherto never by women; I like the French runom best. Ferret among the booksellers, and find more tracts, in Italian, upon resulture than I expected. At night to the opera; the pit is to commodious and so to eable, that it is a good lounge; the fophas and chairs are numbered; they give you a ticket, which marks your feat; but the performers are poor. It was the Imprefario in Augusta, by that beautiful composer, Cimarosa; there is a quintetto in it, than which nothing could be more pleafing, or repeated with more applaufe.

The 6th. Signore Amoretti, whose attentions and assiduity are such as I shall not soon forget, this morning introduced me to Signore Beecken, a counsellor in the court of his Imperial Majesty; and then we went together into the country, six or seven miles, to a farm in the road to Pavia, belonging to the Marquis Visconti, to see the method of making the Lodesan cheese; attended the whole operation, which is so totally different from what we use in England, that skill in making may have a great effect in rendering this product of Lombardy so superior to all others. The cheese, and the enquiries, took up the whole day; so that it was sive in the evening before we got back to Milan, where they dined with me at the pozzo; an itinerant band of music giving a serenade under the windows to the illustrissimi, eccellentissimi, nobili Signori Ingless. This day has passed after my own heart, a long morning of activity, and then a dinner, without one word of conversation but on agriculture. Signore Beecken is a sensible well-informed German, who understands the importance of the plough; and Abbate Amoretti's conversation is that of a man who adds the powers of instruction to the graces that enliven company.

The 7th. Attended the Marquis de Visconti, and Signore Amoretti to Mozzate, the country-seat of the Count de Castiglione, about sixteen miles north of Milan. Stop very near the city to view the Chartreuse, which, since the Emperor seized the revenues, and turned the monks out, has been converted into a powder magazine. View in passing, the since church of Ro, and the Marquis of Litta's villa at Leinate, in which the gardens are conspicuous. The Italian taste was the undoubted origin of what

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we fee in France; but decoration is carried much higher. Marble basons, with fine statucs, too good for the situation: jets d'eau, temples, colonades, and buildings, without end, almost connected with the house; latticed, and clipped bowers and walks; miles of clipped hedges - terraces and gravel walks, never well kept, with abundance of orange-trees, are the features; and they are all in profusion. The expense enormous, both to form and to keep. There is a pinery, and not more than five or fix others in the whole duchy of Milan. Reach Mozzate. The countess appeared what we call a genteel good fort of woman with nothing of that species of soppery and affectation that forms the fine lady. The moment I faw the Count de Castiglione, I was prejudiced in his favour; his physiognomy is pleasing; and the instantaneous easy affability, mixed with great quicknels and vivacity, tells one in a moment, that time would not be lost in his company. I was not deceived. He entered presently on the object of my travels; and I was highly pleased to find, that he was a practical farmer. After dinner, we made an excu fion to a confiderable plantation he has executed with great judgment and spirit. The count shewed me a part of his farm also, -but this is not equally successful. In the evening, while the rest of the company were at cards, he satisfied my numerous enquiries concerning the husbandry, &c. of the neighbourhood, in a manner that left me little to wish. After breakfast, the next morning I returned to Milan. The feature which struck me most in this visit to an Italian nobleman, at his country feat, is the great similarity of living, and of manners in different countries. There are few circumstances in the table, attendance, house, and mode of living, that vary from a man of similar rank and fortune in England or France. Only French customs, however, predominate. I suppose one must go for new manners to the Turks and Tartars; for Spain itself, among people of rank, has them not to give: and this circumstance throws travellers, who regifter their remarks, into a fituation that should meet with the candour of readers: thosewho record faithfully, must note things that are common, and such are not formed togratify curiofity. Those who deal much in adventures, so contrary to our own manners as to excite furprife, must be of questionable authority; for the similarity of European manners, among people of rank or large fortune, can hardly be doubted: and the difference among their inferiors is, in many cases, more apparent than real. I am much pleased with this family: the Countess is a good woman, for she loves her children, her husband, and the country. Her husband has life, animation, quickness ef conception, and that attention to agriculture, which made me wish him for a neighbour. In our return, stop at Desio, the villa of the Marquis of Cusino, which is in a ftyle that pleafes me. The house is not upon too great a scale, and therefore finished and furnished: the rooms are more elegant than splendid—and more comfortable than flewy. There is one apartment, in encaustic painting, said to be the first execu-The fecond floor contains thirteen bed-chambers, with each a small ferted in Italy. vant's room, and light closet: and they have all such a comfortable, clean, English air; and are so neat, without any finery, that, had the sloors been deal, instead of brick, I should have thought myself in my own country. I have read travels that would make us believe, that a clean house is not to be met with in Italy; if that were once true, things are abundantly changed. I like this villa much better than the mafter does, for he is rarely here for a fortnight at a time, and that not often. The gardens are splendid in their kind; lattice-frames of lemons twenty feet high, with espaliers of oranges, both full hung with fruit, have, to northern eyes, an uncommon effect; but they are all covered with glass in the winter. Here is a pinery also. Dine in the village on trout, tresh from the lake of Como, at 3 livres the pound, of twenty-eight ounces. In the evening return to Milan, after an excursion instructive in my principal object, and equally agreeable in the little circumstances that have power sufficient either to gild or shade every object. Pass the house of the Marchesa di Fagnani, who has been much in England, and celebrated here for being the lady with whom our inimitable Sterne had the recontre at Milan, which he has described so agreeably.——32 miles.

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The oth. This day was appointed for vifiting a few objects at Milan, for which Signore Beecken had the goodness to desire to be my cicerone; his chariot was ready after breakfast, and we went from fight to fight till five o'clock. Buildings and pictures have been so often and so well described, that for modern travellers nothing is left, if they expatiate, but to talk of themselves as much as of the objects. I shall note, in a few words, the things that struck me most. I had read so much of the cathedral, and came to it with fuch expectation, that its effect was nothing. There are comparative measurements given of it with St. Paul's and St. Peter's, that seem to rank it in the fame clase for magnitude: to the eye it is a child's play-thing compared to St. Paul's. Of the innumerable statues, that of St. Laurence slayed is the finest. The architecture of the church of St. Fedele, by Pellegrino, is pleafing; it contains fix columns of granite; and there are other fine ones also in that of St. Alesandro. But I found Padro Pini, professor of natural history, a better object than his church; he has made a great and valuable collection of fossils, and has taken the means necessary for self-instruction, much travel, and much experiment. At St. Celso, there are two statues of Adam and Eve, by Lorenzi, that cannot be too much admired; and a Madonna, by Fontana. Here also are pictures by the two Procacinis, that will detain your steps. The great hospital is a vast building, once the palace of the Sforzas, Dukes of Milan, and given by Duke Francis for this use. It has a net revenue of a million of livres, and and has at present above one thousand three hundred patients. At the Abbey of St. Ambrose, built in the ninth century. and which has round arches, anterior to Gothic ones, they shewed us a MS. of Luitprandus, dated 721, and another of Lothaire, before Charlemagne. If they contained the register of their ploughs, they would have been interesting; but what to me are the records of gifts to convents for faving souls that wanted probably too much cleaning for all the fcrubbing brushes of the monks to brighten? Unquestionably the most famous production of human genius at Milan is the last supper of Lionardo de Vinci, which should be studied by artists who understand its merit, as it is not a picture for those who, with unlearned eyes, have only their feelings to direct them. View the Ambrofian library.

The 10th. The climate of Italy, I believe, is generally in extremes; it has rained almost incessantly for three days past, and to-day it pours. I have made a sad blunder, I find more and more, in selling my French equipage; for the dependence on hiring and on the vetturini, is odious. I want to go to-morrow to Lodi, &c. and have lost much time in finding a horse and chaise; and after all can have only a miserable thing, at 7½ livres a day.—In the evening, at the opera, Signore Beecken came to me in the pit, and asked me if I would be introduced to one of the prettiest ladies at Milan? Senza dubbio. He conducted me to the box of Signora Lamberti, a young, lively, and beautiful woman, who conversed with an easy and unaffected gaiety, that would make even a farner wish to be her cicisteo. The office, however, is in the hands of another, who was seated in his post of honour, in the front of the box, vis-a-vis the lady.—Refreshments—suppers—magnificent ridotto. Having mentioned the cicisteo, I may observe, that the custom seems to slourish at Milan; sew married ladies are without this necessary appendix to the state: there were to night a great number of them, each attending his fair. I asked an Italian gentleman why he was not in his post as a

cicifbeo? He replied, he was not one. How so? If you have either business or other pursuit, it takes too much time. They are changed at pleasure, which the ladies defend, by saying, that when an extension of privileges not proper to give is ex-

pected, to part with is better than to retain them.

The 11th. To Lodi, through twenty miles of fuch amazing exertions in irrigation; that we can have in England no idea of it. At that town I found myfelf in the midft of the world; it was the night of terminating the opera feafon of the fair: this had drawn fo much company from the neighbouring towns, that the great inn of the Columbina, formed out of a monastery, was full in an hour. At night the opera house formed a gorgeous difplay : -- we waited half an hour for the arch-duke and arch-duchefs. The house was well lighted with wax; new to me, for in common their theatres have only darkness visible. It is finall, but most elegant, new built this year: the decorations are neat; but the boxes, which are fitted up by the proprietors, are finished with great shew and expence; as fine as glass, varnish, and gilding can make them; and being lighted within made a blazing figure: the company crouded and well dreffed: diamonds sparkled in every part of the house, while the expectation of pleasure, more animated in Italian than in French or English eyes, rendered the coup d'œil equally flriking and agreeable; the profusion of dancers, dresses, scenes, &c. made me stare, for a little place of not more than ten or twelve thousand souls. No evening could pais with a more animated festivity; all the world appeared in good humour: the vibrations of pleafurable emotions feemed more responsive than common, for expression is one great feature in Italian physiognomy. I have dwelt the more on this spectacle, because I confider it in a political light, as deserving some attention. Lodi is a little infignificant place, without trade, and without manufactures. It is the part of a dominion that may be faid to have neither, and cut off from all connection with the fea: yet there is not a town in France or England, of double the population, that ever exhibited a theatre fo built, decorated, filled, and furnished, as this of Lodi. Not all the pride and luxury of commerce and manufactures—not all the iron and steel—the woollen or linen—the filk, glaffes, pots, or porcelain of fuch a town as Lodi, ever yet equalled this exhibition of butter and cheefe. Water, clover, cows, cheefe, money, and music! These are the combinations-that firing Italian nerves to enjoyment, and give leffons of government to northern politicians. The evening would have been delicious to me, if I had had my little girl with me; I could not help picturing her by my fide, supposing the expresfions of her pleasure, and giving an imaginary presence to her smiles, her enquiries, and her enjoyment. In truth it was better adapted to her age than to mine.miles.

The 12th. I had brought a letter to a Signore Mayer, lieutenant of dragoons, who yesterday, when I waited on him, introduced me to the Cavaliere Don Bassiano Bona Moma, who promised to find a person this morning for conducting me to a celebrated dairy of his near Lodi; he was as good as his word, and by his means I was introduced into two dairies, one of ninety cows, and assisted in making the cheese. In the afternoom to Codogno, through sisteen miles of dead slat, of a singular aspect; it is intersected by ditches, without hedges, but a row of pollard poplars and willows on each side. The heads of these trees form a woodland, as the fields are very small, and looking through the stems, under the covert of their heads, is something like the prints I have seen of the forests of Tasso, but without the wildness or enchantment. The inhabitants here are neither witches, nymphs, nor knights, but cows and frogs: the music of the latter not so agreeable as last night's warblings of Senesino. In truth this country is better for these two animals than for man. The whole is a water spunge; the ditches innumer-

able; now water, now mud; the climate hot; and ventilation excluded by a crowd of acuatics. I figured fickness and disease in every quarter: and the want of scattered habitations renders the whole filent and folitary, in spite of a considerable population, that is concealed by the endless pollards. Willows, ditches, mud, and frogs! these are features in perfect contraft to the scenes of last night! yet they are attended by a fertility that gives warbling to the throat, and quivering to the fantallic toe of beauty. At Codogno waited on Signore Bignami, a confiderable cheefe-inerchant. I was in luck; a numerous company fpent the evening with him, from whom he felected a party well acquainted with grafs and cows; and retiring into another apartment, they had the goodness, with him and his son, to dedicate some time to the fatisfying of my enquiries; and I fhould be very backward if I did not observe that the free and agreeable manner in which they did it, proves equally their liberality and politeness. Codogno is a neat little town of about eight thousand people. And note (for the thing is extraordinary,) an opera here too; another new built theatre, of this year. It is not fo large, or fo much decorated as that of Lodi, but the form is more pleafing and more commodious; it is more circular. There are apartments contiguous for the first fingers and dancers, communicating with a noble inn, the albergo del teatro.——15 miles.

The 13th. This morning Signore Bignami had kindly appointed for examining one of the principal dairies in the country, noted for making good cheefe; fortunately the farmer proved communicative and liberal,—conducted us to the feene of action very readily, and directed his dairy-man to answer my enquiries. We attended the making of a cheefe, and then walked over the farm: the farmers feem much at their ease. Take leave of my very friendly conductors, and reach Crema, in the Venetian state. Here also a new-built opera-house, and the Mara from London sirst singer; they did not appear to relish too much her altitudes of division,—yet she was considerably applauded. Great powers in singing, when much exerted in distinct passages, surprize much more than they please. The airs that touch the heart, are what the poet calls "lengthened sweetness long drawn out," that breathe a continuity of melody, flowing, not broken notes. The number of theatres in this part of Italy is associated in two great ones at Milan; in twenty miles, another, at Lodi; in sisteen, one way, Codogno; in ten, another, Crema; in ten, another, Plaisance, &c.—yet trade and manufacture are

very inconfiderable.——16 miles.

The 14th. To Lodi, through ten miles more of the same country; bad road through the late of Venice; but the moment you enter the Milanese, you find an excellent one.

Return to Milan.——30 miles.

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erle; The 15th. The country continues flat, much of it watered, but without fuch exertions as to Lodi; all a crowded feene of willows. Vaprio, where we stopped, is a poor place, with a dirty, milerable, wretched inn: here am I in a chamber, that finks my spirits as I sit and look around me; my pen, ink, and tablets, are useless before me; I want them for two or three subjects that have passed across my mind in the journey, but I can do nothing; to arrange ten words with propriety, is an insurmountable effort. I never in my life wrote three lines to please myself, when the circumstances around were untoward or disagreeable; a clean, neat apartment, a good fire, something to eat better than paste-soup, with tolerable wine, give a lightness to the bosom, and a facility to the ideas. I have not yet read any of the Abbate Amoretti's pieces; but if he writes badly in that elegant apartment, and with all the circumstances of ease and luxury around him, I shall not have so good an opinion of his head, as I think I shall always have of his heart. This chamber of Vaprio is contrast sufficient to his in the Palazzo Cusani.

I cannot write, so must nestle in this nidus of sleas and bugs, which they call a bed.

The 16th. So much rain has fallen in the night, that the Adda has rifen too much to permit a carriage to reach the ferry; we waited, therefore, four hours till the water funk. This is a circumstance to which a traveller is liable every day in Italy; for the rivers are fo little under command, that a night's heavy rain will ftop him. An impatient traveller, waiting on the banks of a river for the water's flowing, might, by equal genius, be fet off as well in poetry, as a patient one is represented expecting till all was passed. The environs of the Adda here are fine; on the side of the Vaprio, high land, that commands the wooded vale. Arrive, at last, at Bergamo. I had a letter to Dr. Maironi da Ponte, secretary of the academy of Bergamo, to whom I went directly. I mounted a fleep hill into the city, which is on the top of it, and tearched hard for the doctor; after examining feveral streets, a lady from a window, who feemed to pity my perplexity (for I had been conducted to three or four streets in vain,) informed me, that he was in the country, - but that if I returned in the morning, I should have a chance of feeing him. What a black, dirty, slinking, difinal place! I stared at some well dressed people I met, wondering what they had to do there; thanking my stars that I was not an inhabitant of Bergamo; foolishly enough, as if it were the brick and mortar of a place that give felicity, and not the connections formed from infancy, and matured by habit. –12 miles.

The 17th. Mount the hill again, in fearch for Signore Maironi; and hearing he has a brother, to find him, should I fail. I repaired to the street where the lady gave me information the night before; the was luckily at her window, but the intelligence cross to my wishes, for both the brothers were in the country; I need not go to the door, she faid, for there were no fervants in the house. The dusk of the evening in this dark town had last night veiled the fair incognita, but looking a second time now, I found her extremely pretty, with a pair of eyes that shone in unison with something better than a street of Bergamo. She asked me kindly after my business, Spero che non è un gran mancemento? words of no import, but uttered with a fweetness of voice that rendered the poorest monosyllable interesting. I told her, that the bosom must be cold, from which her prefence did not banish all teeling of disappointment. It was impossible not to fay fomething a little beyond common thanks. She bowed in return; and I thought I read in her expressive eyes, that I had not offended; I was encouraged to ask the fayour of Signore Maironi's address in the country—Con gran piacere ve lo dard.—I took a card from my pocket; but her window was rather too high to hand it. I looked at the door: Forzi è aperta. - Credo che si, she replied. If the reader be an electrician, and have flown a kite in a thunder-florm, he will know, that when the atmosphere around him becomes highly electric, and his danger increases, if he do not quickly remove, there is a cobweb fensation in the air, as if he was inclosed in an invisible net of the filmiest gossimer. My atmosphere, at this moment, had some resemblance to it: I had taken two steps to the door, when a gentleman passing, opened it before me, and stood upon the threshold. It was the lady's husband; she was in the passage behind, and I was in the street before him, she said, Ecco un Signore Inglese che ha bisogne d'una direzione a Sig. Maironi. The husband answered politely, that he would give it, and, taking paper and pencil from his pocket, wrote and gave it me. Nothing was ever done fo concifely: I looked at him askance, and thought him one of the ugliest fellows I had ever feen. An-ill-natured by-stander would have faid, that his presence prevented a farming from becoming a fentimental traveller. Certain it is, one now and then meets with

with terrible eyes in Italy; in the north of Europe they have attractive powers; here they have every fort of power; the sphere of the activity of an eye beam is enlarged, and he who travels as I do for the plough, must take care, as I shall in suture, to keep out of the reach of it. From the ramparts of the town, below the house of the count de Brembate, there is a prospect of fertile land, hardly to be equalled. In front, to the south, a range of Appenines rises above the fog, that hangs over a part of the plain. To the west, an immense curve of the Alps, that bound the Milanese and Piedmont; their heads uninterruptedly in snow, form one of the finest mountain barriers to be imagined. To the east, the view an unbroken, unlimited level. This valt plain, at one's feet, seems a level wood, with towns, churches, towers, and houses. Near Bergamo, the angle of vision permits the fields to be seen, and therefore more picturesque. Similar features must give similar prospects, this resembles that of the Superga. It is as hot to-

day, and every day of fun-thine, as in England in June.

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The 18th. Yesterday I agreed with a vetturing, to take me this morning, at fix o'clock, to I'rescia; but not being perfectly well, I insisted that he should not come for me with out his vettura, nor before the time. The rascal knocked me up at five, and then without the carriage; it was only four steps, he faid, and wanted to hurry away my trunk. I begin to know them, and therefore fleadily refused to stir: after much vain persuasion, away they went, and in three quarters of an hour returned. The fellow drove me a full mile and half, on the road to Brescia, to an inn, where there was another vetturing, to whom he had fold me; and there I found myself, packed with three other persons, in the worst place; to the contrary of all which the scoundres had signed an agreement. My expressions of anger only got me laughed at. The world has not fuch a fet of villains as these vetturini. I have read guides and directories, and travels, that speak of this way of journeying as passable;—if not good, very bearable; but they must be very partial, or very careless, if they mention them without indignation. Their carriages are wretched, open, crazy, jolting, dirty dung-carts; and as to their horses, I thought, till I faw them, that the Irish garrans had no rivals on the globe; but the cavalli de vetturini convinced me of the error. My company were two merchant-like people, and a young man going to the university of Padua; the two first repeating prayers, and counting beads. How the country came to be well irrigated, is a question? Pater-nosters will neither dig canals, nor make cheese. _____32 miles.

The 19th. I had letters for Signore Pilati, fecretary to the fociety of agriculture; he was in the country at his brother's farm, whither I went with pleasure; he was to introduce me to Count Corniano, the president, but he is absent, twenty miles out of my road. In the evening to the opera; the house large, but ugly: the Avara, badly acted; and the taste of the audience (the pit, not the boxes, shew a nation) still worse. Puns, conceits, distortions, and exaggerated action, gained great applause. A child, telling his name, of ten or a dozen hard syllables, and an exaggerated mimickry of attempting to repeat them, were encored more violently than the finest airs would have been. This depravity of national taste is amazing, amongst a people that have produced

fuch proofs of genius in almost every walk of life.

The 20th. After a repetition of the old plagues, to find a vetturino for Verona, agree at last at the extravagant price of 33 lire. Depart, after dinner, with a young woman and a boy of eight or nine years old. She had not two ideas beyond her snuff-box, and a crucisix. I have no opinion of Venetian police, from the villainous roads through all their territory; they consist every where of great stones, broken pavements, or mud. The country is not near so rich as the Milanese, but all thickly inclosed with hedges, sull of mulberries; and incumbered, to use Prosessor Symonds's just expression, with

pollards for training vines. Reach Dosenzano in the dark. What my religious companion did with herself, I know not; I supped alone, thanking God she had not the eyes of the Bergamasque fair. In the night, I thought the noise of water was different from that of a stream, and opening the windows in the morning, found it the waves of a sine

lake. The Lago di Garda was out of my recollection. ____ 15 miles.

The 21st. Coast the lake, with good views of it for several inites. From Brescia to Verona, but especially to Desenzano, I believe there are sitty crosses by the side of the road for deaths. When a person is murdered they set up a cross for the good of his soul. They had better institute a police for that of his body. What a scandal to a government are such proofs of their negligence! yet that of Venice is called a wise one. Impassable roads, towns unlighted, and a full harvest of affassinations; with men counting their beads, and women crossing themselves, are the chief signs of wisdom I have yet seen. Arrive at Verona in time to deliver a letter to Signore Cagniola, altronomer and secretary of the Agrarian Society: this must be a pretty institution, a society of farmers, with an altronomer for their secretary. He introduced me at the cosses house of the Piazza to some lovers of agriculture; and made an appointment with the president of the

fociety for to-morrow. 25 miles.

The 22d. Ill luck: the prefident is obliged to go into the country; and he thinks me, I suppose, like Italian theorists, tied to a town. Signore Cagniola directed his fervant to shew me to the house of Signore Michael Angelo Locatelli, to whom he had named the object of my journey last night. I found this gentleman, who is engaged in commerce, but who has two farms in his hands, ready to converfe with me on the fubject of my enquiries; of Signore Cagniola, I faw or heard no more. I felt myfelf uncomfortable at Verona, till I had feen the amphitheatre, which is in truth a noble remain of antiquity, folid and magnificent enough yet to last perhaps fome thousands of years; that of Nifmes, cluttered up with houses, must not be named with this. As I stood on the verge of this noble building, I could not but contemplate in idea, the innumerable crouds of people who had been spectators of the scenes exhibited in it: the reflection was attended with what is to me a melancholy impression—the utter oblivion in which fuch holts are now loft! time has fwept their memories from the earth - has left them no traces in the records of mankind; yet here were vit and beauty, wealth and power; the vibrations of hope and fear; the agitations of exertion and enterprize ——all buried in the filence of feventeen hundred years !— I read the works of fo few poets, that I know not if the idea of fuch oblivion have been to them as melancholy as it is to me; if fo, they have doubtlefs given energy to the fentiment, by the force and beauty of their expreffions.

The 23d. This morning, I took a cicerone to attend me to view churches and palaces, an uncomfortable method, but when a traveller has one principal purfuit, such secondary objects must give way. The great soult here, as every where else, is being carried to too many things. Nothing strikes more at Verona than the works of an architect, whose name is little known in England, San. Michael Michieli; they are of diffinguished merit, and must please every eye. The chapel of the Pellegrini family, in the Bernardine church, and the rotunda of St. Georgio, are beautiful editices. There is something singular in the Palazzo Bevilaqua, an idea which might have been copied with more success, than many others that have been repeated often. The Palazzo di Consiglio is simple and elegant, and presents one of the most pleasing examples of an arcade, for a street or square. The theatre is large, but nothing after Milan. My expences at Brescia, and at Verona are, dinner 3 pauls, supper 2, chamber 2; which at 5d. English, are 2s. 11d. a-day; and as I have rooms not at all bad, good beds, and am as well served at the meals

as I require, it is remarkably cheap.

The 24th. The country to Vicenza is all flat, and mostly of a singular face; rows of elm and maple pollards, with vines trained up, and from tree to tree; between the rows arable. This system is not disagreeable till it grows tedious to the eye.—32 miles.

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The 25th. Wait on Count Tiene, to whom I had a recommendation; he opened the letter, but found it was to another Count Tiene, who lived in the country, near Vicenza; reading in it, however, fome expressions of commendation, which friends are apt to use in such letters, he with great ease and politeness, as he returned me the paper, offered me any affiftance in his power: "Yours, Sir, is an errand that ought to recommend you to all mankind; and if you find the least difficulties with others, I beg you will return to this house," which is one of the Palazzi di Palladio. I waited then on the Abbate Pierropan, professor of physics and mathematics. He had the direction, for some years, of the economical garden, given by the state for experiments in agriculture, now in the hands of the Agrarian Academy: he received me with great politenefs; and not only expressed every wish to assist me, but entered immediately on the business, by proposing a walk to call on the Count de Boning, president of that academy, in our way to the garden. I have a poor opinion of all these establishments on a fmall scale; in any hands they are not calculated to do much; and in hands not truly practical, they are calculated to do nothing. The Count de Boning, finding that I wished to converse with some real common farmers, appointed the afternoon for going into the country, about three miles, to a farm of his, where I should find an intelligent person: he then took his leave for the present,—and Signore Pierropan and myself proceeded to the villa of the Count de Tiene; as he was absent for an hour only, we employed that time in walking a little further, to view the celebrated rotunda of Palladio, belonging to Count Capra, one of the three greatest works of that great genius they possess at Vicenza. It is of a beautiful mean, between decoration and simplicity; the distribution seems a new and original thought, much more adapted, however, to Italy than to England; for, in the space of one hundred Vicentine feet, we might, relatively to our climate and manners, have a house far exceeding it. I am concerned to fee to delicious a morfel fuffered to go much to decay; the plaister on the brick columns is wearing off, and other neglect visible. The beauty of the environs of Vicenza exceeds any thing I have feen in Italy, viewed from the hill on which thefe houses, and the church, Santa Maria del Monte, are fituated; the city in the rich plain, and the hills spread with white buildings, crowned by the Alps, are fine. The Count de Tiene, with the afliftance of another nobleman, of more experience, who happened to be present, gave me fome information, relative to the part of the Vicentine, in which their estates are situated. Quitting him, I begged the Abbate Pierropan to favour me with his company at dinner, by which means I had the benefit of his conversation so much longer on the favourite topic. The Abbate de Traico, vice-president of the academy, joined us. After dinner, according to appointment, to the Count de Boning, whose coach was ready, and carried us to the farm. Fortunately the farmer, a fensible and intelligent man, was ready to answer all such enquiries as I put to At night, returned to the city, after a rich day, that pays for the trouble of travelling.

The 26th. My friendly Abbate, continuing his obliging offices, had the goodness to accompany me this morning to a very famous woollen fabric, at present under the direction of an Englishman; and to a magazine of earthern-ware, in imitation of Mr. Wedgwood. It is surely a triumph of the arts in England, to see in Italy Etruscan forms copied from English models. It is a better imitation than many I have seen in vol. 1v.

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France-

France. View the Olympic theatre of Palladio, which pleafes all the world; nothing can be more beautiful than the form, or more elegant than the colonade that furrounds it. Of all his works here, I like the Palazzo Barbarana leath. I am forry to fee, that most of Palladio's editices are of bricks stuccoed, except the Palazzo Ragione, which is of durable stone; and that there is hardly one of them which is not out of repair. The roof of the Palazzo di Ragione, which must offend every eye, is not of Palladio; only the case of arcades that surround the building, which is one vast room of two hundred so the repair architect are of a palladio; and dreadfully garnished. A pretty use to which to apply an editice of Palladio. The brick columns of this great architect are of the finest work I ever saw; and some of the stucco but now failing, after two hundred years. At Verona and Vicenza, there are very sew new honses, and no signs, that I could see, of the wealth and prosperity of the present age. There are exceptions, but they are sew. A filk merchant here has built a good house; and Signore Cordelina, an advocate at Venice, a large and handsome one, that cost 100,000 ducats, without being sinished: he made

his fortune by pleading.

The 27th. To Padua. The country, which has been called a garden by travellers, not at all better cultivated than before, but deeper and richer. The ame flat, lined into rows of pollards and vines in the fame manner; very little irrigation, except fome rice. Waited on Signore Arduino, experimenter in agriculture, on a farm, or rather a garden of twelve acres, given by the state. I had heard much of this œconomical garden, and of the great number of useful experiments made in it; fo much, indeed, that it weighed confiderably with me in the arrangement of my journey; Venice was no object; and I could not, if I took Padua, have time for the Pontine marshes and Rome, which, by the direct road, I could have reached from Milan; but an experimental farm, the first I was assured in Europe, and which had thrown light on various important enquiries, was an object which I ought, as a farming traveller, to prefer to any city, and I determined accordingly. Signore Arduino received me politely, and appointed to-morrow for that gratification. At night to the opera, the Due Baroni, of Cimarofa, whose music to me has always something original and pleasing; but though the parts were not ill performed, and the orcheftra powerful, yet the house being almost empty, and those in it wearing such a shabby appearance, and all the musicians so dirty and undressed, that I telt here, what I have often done before, that half the charms of a theatre depend on the audience;—one must be in good humour—a certain exhibitation must be springing in the bosom; willingness to enjoy must be expanded into enjoyment by the sympathy of furrounding objects. Pleasure is caught from eyes that sparkle with the expectation of being pleafed. Empty boxes, and a dirty pit, with a theatre but half lighted, made the mufic, with all its gaiety, fombre; I left Gulielmi's Paftorella nobile, for the filence of my chamber. -- 21 miles.

The 28th In the morning, viewing buildings, of which fome are worth the trouble: then to deliver letters, but I was not fortunate in finding Mefficurs the professors at home: Signore Arduino was so by appointment, and shewed me the experimental farm, as it ought to be called, for he is professor of productal agriculture in this celebrated university. I will enter into no detail of what I saw here. I made my bow to the professor; and only thought, that his experiments were hardly worth giving up the capital of the world. If I keep my resolution, this shall be the last economical garden that I will ever go near. Among the buildings I viewed to-day, I was much struck with the church Santa Justina: though built in no perfect style, it has, on entering, an effect unusually imposing. It is clean, and well kept; the pavement a very sine

one, of marble—and the magnitude being confiderable, forms, on the whole, a splendid coup d'eil. That of St. Anthony is little, on comparison, and made less by multiplied divisions and numerous decorations. Numbers were on their knees before the fainted shrine, to which millions have reforted. Here mingled saith, folly and enthusiam, have fought consolation, and found more than they merited. The Palazzo di Consiglio, which we should call the town hall, is one of the greatest—if not the greatest room in Europe. It is three hundred feet long, and one hundred broad; it does not

want the excrementitious garniture of that of Vicenza.

The 29th. Waited, by appointment, on Signore Carbury, professor of chemistry; a lively pleafing man, with whom I wished to converse a little on the application of his fcience to agriculture; but that was not eafy. Politics came acrofs him, in which-I happened to mention the extraordinary prosperity of England fince the American war; and he took the clue, and conducted it through fuch a labyrinth of admirals, generals, red-hot balls, and floating batteries: -Rodney, Elliot, Necker, and Catharine, with Lord knows what befides, that I thought he meant to make a tour as great as Mr. Wraxall's. He however gave me a note to the celebrated attronomer, Signore Toaldo, to whom I wanted an introduction, and whose observatory I viewed. He assured me, that he continues firmly of the fame opinion, of which he has always been, relative to the influence of the moon on our feafons, and the importance of attending to the lunar period of eighteen years. I begged the titles of his memors, as I 'tad yet procured only his Meteorologia applicata all'Agricoltura; he faid the others were difficult to find, but he would give me them. For this generous offer, I expressed my warmest thanks, and readily accepted it. On descending into his library, he presented me with the supplement to what I had; and also his tract, Della Vera Infl. cana, &c. After some other conversation, he told me, the price was 8 lire, and the su, pleasent, 30 soldi. I was at a loss to know what he meant, by telling me the price of his book; for, to offer him money, would, I feared, affront him. After fome minutes, he again reminded me, that the price was 9\frac{1}{2} lire: on which I took out my purfe. The Vera Influenza, he faid, was only fix lire; but being scarce, he must have eight for it, which, with 30% for the other, made of livres. I paid him, and took my leave. There was not the leaft reafon to expect Signore Toaldo to make me, an utter stranger, a present of a farthing; but his manner made me fmile. I had left a letter yesterday at the house of the Abbate Fortis, well known in England by his travels in Dalmatia; to-day I received a vifit from him. He has that liveliness and vivacity which distinguish his nation; was polite in his offers of fervice, and entered into conversation concerning the vines of his country. He travelled, many years ago, with Lord Briftol and Professor Symonds; and I was glad to find, that he spoke as handsomely of them be '1, 28 I have heard them both mention him.

This is the third evening I have fpent by myfelf at Padua, with five letters to it; I do not even hint any reproach in this; they are wife, and I do truly commend their good fenfe: I condemn nobody but myfelf, who have, for fifteen or twenty years paff, whenever a foreigner brings me a letter, which fome hundreds have done—given him an English welcome, for as many days as he would favour me with his company, and fought no other pleafure but to make my house agreeable. Why I make this minute at Padua, I know not; for it has not been peculiar to that place, but to seven eighths of all I have been at in Italy. I have millaken the matter through life abundantly—and find that foreigners understand this point incomparably better than we do. I am, however, afraid that I shall not learn enough of them to adopt their customs, but continue

those of our own nation.

The 30th. I had been fo fick of vetturini, that I was glad to find there was a covered paffage boat that goes regularly to Venice; I did not expect much from it, and

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therefore was not disappointed to find a jumble of all forts of people; except those of fortune. There were churchmen, two or three officers, and some others, better dressed than I should have looked for, for in Italy people are obliged to be economical. At Dolo, the half way place, I formed, for dinner a little party, of two Abbati, an officer, and a pretty Venetian girl, who was lively and fenfible. We dined by ourfelves, with great good humour. After leaving Fusina, there is from the banks of the canal (I walked much of the journey), at the distance of four miles, a beautiful view of the city. On entering the Adriatic, a party of us quitted the bark, and to fave time, hired a large boat, which conveyed us to this equally celebrated and fingular place; it was nearly dark when we entered the grand canal. My attention was alive, all expectancy: there was light enough to shew the objects around me to be among the most interesting I had ever feen, and they struck me more than the first entrance of any other place I had been at. To Signore Petrillo's inn. My companions, before the gondola came to the steps, told me, that as foon as Petrillo found me to be a Signore Ingless, there would be three torches lighted to receive me:—it was just so: I was not too much flattered at these three torches, which struck me at once as three pick-pockets. I was conducted to an apartment that looked upon the grand canal, fo neat, and every thing in it fo clean and good, that I almost thought myself in England. To the opera. A Venetian audience, a Paduan, Milanefe, Turinefe, &c. exactly fimilar for dancing. What with the flupid length of the ballets, the importance given to them, and the almost exclufive applaufe they demand, the Italian opera is become much more a school of dancing than of music. I cannot forgive this, for of forty dances, and four hundred passages, there are not four worth a farthing. It is differred motion, and exaggerated agility; if a dancer places his head in the position his heels should be in, without touching the ground; if he can light on his toes, after twirling himself in the air; if he can extend his legs, fo as to make the breadth of his figure greater than the length; or contract them to his body, fo as to feem to have no legs at all; he is fure to receive fuch applause, so many bravos, and bravishmos, as the most exquisite airs that ever were composed would fail to attract. The ballarine, or female dancers, have the same sury of motion, the fame energy of distortion, the fame tempest of agility. Dances of such exquifite elegance, as to allure attention, by voluptuous case, rather than strike it by painful exertion, are more difficult, and demand greater talents: in this superior walk, the Italians, where I have been, are deficient.—24 miles.

The 31st. My first business was to agree with a gondolicr, who is to attend me for 6 paoli a day. This species of boat, as all the world knows, is one of the most agreeable things to be found at Venice; at a trifling expence, it equals the convenience of a coach and a pair of horses in any other city. I rowed out to deliver letters. Venice is empty at prefent, almost every body being in the country; but I met with Signore Giovanne Arduino, fuperintendant of agriculture throughout the Venetian dominions, who has a confiderable reputation, for the attention he has given to this object, and for fome publications on it. It may be supposed, from his residence in this city, that he is not himself a practical husbandman. Spent a few hours among palaces, churches, and paintings. Every where in Italy, the number of these is too great to dwell on. I shall only note, that the picture which made the greatest impression on me, was the family of Darius at the feet of Alexander, by Paul Veronese. The expression of the moment is admirably caught; the story well told; the grouping skilful; the colouring mellow and brilliant; the whole nature; all is alive; the figures speak; you hear the words on their lips; a calm dignity is admirably mixed with the emotions of the moment. Here was a subject worthy of employing a genius. It is in the Palazzo Pisani. Titian's presentation in the Temple, in the Scuola della Carità, pleased me greatly. His bewitching witching pencil has given such life and lustre to some figures in this piece, that the eye is not soon satisfied with viewing it. The Doge's palace contains such a profusion of noble works by Tiziano, Tintoretto, Paolo Veronese, Bassano, and Palma, as to form a school for artists to study in. Cochin, in his Voyage d'Italie, has given the particulars, with criticisms that have less offended the Italians, than most other works of a similar kind. The brazen horses, given to Nero by Tiridates, carried to Constantinople by Constantine, and brought thence by the Venetians, when they took that city, are admirable: pity they are not nearer to the eye. The mouths of the lions, not less celebrated than Venice itself, are still in existence; I hope regarded with detestation by every man that views them. There is but one accusation that ought to enter them; the voice of the people against the government of the state. In the evening at the theatre, (a tragedy) I was agreeably disappointed, to find that the Italians have some

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November 1. The cheapness of Italy is remarkable, and puzzles me not a little to account for; yet it is a point of too much importance to be neglected. I have, at Petrillo's, a clean good room, that looks on the grand canal, and to the Rialto, which, by the way, is a fine arch, but an ugly bridge; an excellent bed, with neat furniture, very rare in Italian inns, for the bedilead is usually four forms, like trussles, fet together; fine fleets, which I have not met with before in this country; and my dinner and fupper provided at the old price of 8 paoli a-day, or 3s. 4d. including the chamber. I am very well ferved at dinner with many and good difhes, and fome of them folids; two bottles of wine, neither good nor bad, but certainly cheap; for though they fee I drink scarcely half of it in my negus at supper, yet a bottle is brought every night. I have been affured, by two or three persons, that the price at Venice, a la mercantile, is only 4 to 6 paoli; but I suppose they serve a foreigner better. To these 8 paoli, I add 6 more for a gondola; -- breakfast 10 soldi; if I go to the opera, it adds 3 paoli; - thus, for 7s. 3d. a-day, a man lives at Venice, keeps his fervant, his coach, and goes every night to a public entertainment. To dine well at a London coffeehouse, with a pint of bad port, and a very poor desert, costs as much as the whole day here. There is no question but a man may live better at Venice for 1001. a year, than at London for 500.; and yet the difference of the price of the common necessaries of life, such as bread, meat &c. is trisling. Several causes contribute to this effect at Venice; its fituation on the Adriatic, at the very extremity of civilized Europe, in the vicinity of many poor countries; the use of gondolas, instead of horses, is an article perhaps of equal importance. But the manners of the inhabitants, the modes of living, and the very moderate incomes of the mass of the people, have perhaps more weight than either of those causes. Luxury here takes a turn much more towards enjoyment, than confumption; the fobriety of the people does much, the nature of their food more; pastes, macaroni, and vegetables are much easier provided than beef and mutton. Cookery, as in France, enables them to spread a table for half the expence of an English one. If cheapness of living, spectacles, and pretty women, are a man's objects in fixing his refidence, let him live at Venice: for myfelf, I think I would not be an inhabitant to be Doge, with the power of the Grand Turk. Brick and stone, and sky and water, and not a field or a bush even for fancy to pluck a rose from! My heart cannot expand in such a place: an admirable monument of human. industry, but not a theatre for the feelings of a farmer!—Give me the fields, and let others take the tide of human life, at Charing-cross and Fleet-ditch *. Called again on

See Mr. Boswell's agreeable Life of Dr. Johnson.

Signore Arduino; converse on the state of agriculture in Italy, and the causes which have contributed to accelerate or retard it; and from him to a conservatorio at the Ospalletto. Dr. Burney, in his pleasing and elegant tour, has given an account of them.

The 2d. A tour among Chiefe, Schole, e Palazzi; but there is fuch an abundance of buildings and collections to which books fend one, that much time is always loft. The only traveller's guide that would be worth a farthing, would be a little book that gave a catalogue of the best articles to be seen in every town, in the order of merit. So that if a man in passing have but one hour, he uses it in seeing the best object the place contains; if he have three days, he takes the best the three days will give him; and if he stay three months he may fill it with the like gradation; and what is of equal confequence, he may flop when he pleafes and fee no more; confident, as far as he has extended his view, that he has feen the objects that will pay him best for his attention. There is no fuch book, and fo much the worse for travellers. In the library of St. Mark among the antiques, are Commodus, Augustus, and Adrian; and more particularly to be noted, a fallen gladiator: a fingular and whimfical Leda, by Cocenius. In the Palazzo Barbarigo, the Venus and the Magdalen of Titian, are beautiful, though they have loft much of their glowing warmth by time. Two Rembrandts in the Palazzo Farfetti. A Holy Family, by Andrea del Sarto. Titian's portrait, by himself. I finished by going up St. Mark's tower, which is high enough to command a diffinct view of all the islands on which Venice is built, and a great range of coast and mountains. The country feems every where a wood. Nothing rivals the view of the city and the isles. It is the most beautiful, and by far the most singular that I have feen. The breadth of the Giudecca canal, fpread with ships and boats, and walled by many noble buildings, with the ifles diffinct from Venice, of which the eye takes in four-and-twenty, form, upon the whole, a coup d'œil, that exceeds probably every thing the world has to exhibit. The city, in general, has some beautiful features, but does not equal the idea I had formed of it, from the pictures of Canaletti. A poor old Gothic house makes a fine figure on canvas. The irregularity of front is greater perhaps than in any other city of equal importance; no where preferved for three houses together. You have a palace of three magnificent stories, and near it a hovel of one. Hence, there is not that species of magnificence which results from uniformity; or from an uninterrupted fuccession of considerable edifices. As to streets, properly fo called, there is nothing fimilar to them in the world; twelve feet is a broad one; I meafured the breadth of many that were only four and five. The greater part of the canals, which are here properly the fireets, are fo narrow, as to take off much from the beauty of the buildings that are upon them. St. Mark's place has been called the finest square in Europe, which is a fine exaggeration. It appears large, because every other space is small. The buildings, however, that surround it are some of them fine; but they are more interesting than beautiful. This spot is the immediate feat and heart of one of the most celebrated republics that has existed. St. Mark's church, the Doge's palace, the library, the Doge himfelf, the nobles, the famous cafinos, the coffee-houses: thus, St. Mark's square is the feat of government, of politics, and of intrigue. What Venice offers of power and pleafure, may be fought here; and you can use your legs commodiously no where else. Venice shines in churches, palaces, and one fine fquare; and the beauty of the large canals is great. What the wants are good common houses, that mark the wealth and case of the people; instead of which, the major part are Gothic, that feem almost as old as the republic. Of modern houses there are few—and of new ones fewer; a fure proof that the state is not flourishing. Take

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it, however, on the whole, and it is a most noble city; certainly the the most singular to be met with in the world. The canal of the Giudecca, and the grand canal, are unrivalled in beauty and magnificence. Four great architects have contributed their talents for the fine buildings to be met with here; -Palladio, St. Micheli, Sansovino, and Scamozzi. The church of St. Georgio Maggiore, by the first, is of a noble simplicity; and that of St. Maria della Saluta, by St. Micheli, has parts of admirable beauty; he feems always happy in his domes; and the portal of this church is truly elegant. If a genius were to arife at prefent at Venice, as great as Palladio, how would be find employment? The talte of building churches is over: the rich nobles have other ways of fpending their incomes. Great edifices are ufually raifed by newly acquired fortunes; there are now either none, or too inconfiderable to decorate the city. In England, all animated vigour of exertion is among individuals, who aim much more at comfort within, than magnificence without; and for want of public spirit and police, a new city has arisen at London, built of baked mud and ashes, rather than bricks; without fymmetry, or beauty, or duration; but diffinguished by its cleanness, convenience, and arrangement. At a prova, or rehearfal of a new opera, Il Burbero benefico.

by Martini of Vienna, much to my entertainment.

The 3d. To the the arfenal, in which there is very little indeed worth the trouble of viewing; travellers have given strange exaggerations of it; the number of ships, frigates, and gallies is inconfiderable; and I came outof this famous arfenal, with a much meaner opinion of the Venctian naval force, than I had entered it. Yet they fay there are three thousand men constantly employed: if there are half the number, what are they bout? The armoury is well arranged, clean, and in good order. The famous bucentaur is a heavy, ill built, uzly gilded monster, with none of that light airy elegance which a decorated yacht has. A thing made for pleasure only, should have at least an agreeable physiognomy. I know nothing of the ceremony so good as Shenstone's stanza, comparing the vanity of the Doge's splendour on that day, with the real enjoyment which a hermit on her shore has of his ducal cara sposa. The ships in this arienal, even of eighty eight guns, are built under cover; and this is not fo great an expence as might be thought; the buildings are only two thick brick walls. with a very light roof: but the expence is probably much more than faved in the duration of the thip. I mounted by the fcaffolds, and entered one of eighty-eight guns, that has been twenty five years building, and is not above four-fifths finished at present. At the opera. — The fex of Venice are undoubtedly of a diffinguished beauty; their complexions are delicate, and, for want of rouge, the French think them pale; but it is not person, nor complexion, nor features, that are the characteristic; it is expression, and physiognomy; you recognize great fweetness of disposition, without that insipidity which is formetimes met with it; charms that carry a magic with them, formed for fenfibility more than a bahation; to make hearts feel much more than tongues speak. They must be generally be stifful here, or they would be hideous from their dress; the common one, at prefer the acrig cloth cloak, and a man's cocked hat. The round hat in England is ren and dominine by feathers and ribbons; but here, when the petticoats are conceale' soul look again at a figure before you recognife the fex. The head dreffes I faw and I am, Lodi, &c. thew the tafte and fancy of this people. It is indeed their region. (I ar productions in all the fine and elegant arts have shewn a ferality, a facility or invention, that furpaffes every other nation; and if a reason be fought, for the want of energy of character with which the modern Italians have been reproached (perhaps unjuftle) we may possibly find it in this exquisite tatte—perhaps inconfiltent in the fame characters with those rougher and more rugged feelings, that refult from tension, not laxity, of fibre. An exquisite sensibility has given them the empire of painting, sculpture, architecture, poetry, and music; whether or not to this it may be imputed that their beautiful country has been left under the dominion of

Germans, Frenchmen, and Spaniards, is a question not difficult to decide.

The 4th. I am in double luck; two persons, to whom I had letters, are returned from the country. I waited upon one of them who received me in a very friendly manner, and entered into a conversation with me intere mg, because on subjects of importance. I explained to him the object of my travels; and told him that I refided a few days in great cities, for the advantage of conversation on those topics of political economy, which concerned the general welfare of all nations. He told me very frankly that he was no farmer, and therefore for the practical part of my enquiries could not fay much: that as to the other objects, which were without doubt important, he would give me any information in his power. I faid, that I wished for none on points which the nature of the government made improper to ask about; and if inadvertently I should demand any thing of that complexion, he would have the goodness to pardon and pass it by. He interrupted me hastily, "foreigners are strangely apt to entertain false ideas of this republic; and to think that the same principles govern it at present as are supposed to have been its guidance some centuries past. In all probability half of what you have heard about it is erroneous; you may converse as freely at Venice as at London; and the state is wife enough (for in such cases it is really very moderate and tender) to concern itself not at all with what does not tend directly to injure or disturb the established order of things. You have heard much of spies, and executions, and drownings, &c. but, believe me, there is not one circumstance at Venice that is not changed, and greatly too, even in twenty years." Encouraged by this declaration, I ventured to put enquines on population, revenues, taxes, liberty, &c. and on the government as influencing these; and it gave me no slight satisfaction to find that he was the man he had been represented; -able, keen, and intelligent; who had seen much of the world, and understood those topics perfectly. He was so obliging as to ask me to spend what time I could with him-said, that for some days he should be constantly at home; and whenever it fuited me to come, he defired me to do it without ceremony. I was not equally fortunate with the other person; who seemed so little disposed to enter into conversation on any subject but trifles, that I presently saw he was not a man for me to be much the wifer for: in all political topics it was easy to suppose motives for filence; but relatively to points of agriculture, or rather the produce of estates, &c. perhaps his ignorance was the real cause of his referve. In regard to cicisbeism, he was ready enough to chat; he faid that foreigners wer every illiberal in supposing that the custom was a mere cloak for vice and licentiousness; on the contrary, he contended, that at Paris, a city he knew well, there is just as much freedom of manners as at Venice. He faid as much for the cultom as it will bear; mollifying the features of the practice, but not removing them. We may however hope, that the ladies do not merit the scandal with which foreigners have loaded them; and that the beauty of some of them is joined with what Petrarch thought it fo great an enemy to:

> Due gran nemiche insiem: erano aggiunte Bellezza ed onestà

At night to a new tragedy of Fayel, a translation from the French; well acted by Signore and Signora Belloni. It is a circumstance of criticism, amazing to my ears, that the Italian language should have been represented as wanting force and vigour,

and proper only for effeminate subjects. It seems, on the contrary, as powerfully expreffive of lofty and vigorous fentiments, of the terrible and the fublime, as it is admirable in breathing the foftest notes of love and pity; it has even powers of harsh and rugged expression. There is nothing more striking in the manners of different nations. than in the idea of shame annexed to certain necessities of nature. In England a man makes water (if I may use such an expression) with a degree of privacy, and a woman never in fight of our fex. In France and Italy there is no fuch feeling, fo that Sterne's Madame Rambouillet was no exaggeration. In Otahite, to eat in company is shameful and indecent; but there is no immodelly in performing the rites of love before as many spectators as chance may affemble. There is between the front row of chairs in the pit and the orchestra, in the Venetian theatre, a space of sive or six feet without floor; a welldreffed man, fitting almost under a row of ladies in the fide-boxes, stepped into this place, and made water with as much indifference as if he had been in the street; and nobody regarded him with any degree of wonder but myfelf. It is, however, a beaftly trick: shame may be ideal, but not cleanliness; for the want of it is a solid and undoubted evil. For a city of not more than one hundred and fifty thousand people, Venice is wonderfully provided with theatres; there are feven; and all of them are faid to be full in the carnival. The cheapnels of admission, except at the serious opera-

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The 5th. Another tour among palaces, and churches, and pictures; one fees too many at once to have clear ideas. Called again on -, and had another conversation with him better than a score of fine pictures. He made an observation on the goodness of the disposition of the common people at Venice, which deserves, in candour, to be noted; that there are feveral circumstances, which would have considerable effect in multiplying crimes, were the people disposed to commit them: 1st, the city is absolutely open, no walls, no gates, nor any way of preventing the escape of criminals by night, as well as by day: -2d, that the manner in which it is built, the narrowness and labyrinth direction of the streets, with canals every where, offer great opportunities of concealment, as well as escape: 3d, the government never reclaims of any foreign power a criminal that flies: 4th, there is no police whatever; and it is an error to suppose that the system of espionage (much exaggerated) is so directed as to anfwer the purpole: 5th, for want of more commerce and manufactures, there are great numbers of idle loungers, who must find it difficult to live: 6th, and lastly, the government very feldom hangs, and it is exceedingly rare otherwife to punish.—From this union of circumstances it would be natural to suppose, that rogues of all kinds would abound; yet that the contrary is the fact; and he affured me, he does not believe there is a city in Europe, of equal population, where there are fewer crimes, or attempts against the life, property, or peace of others, that he walks the streets at all hours in the night, and never with any fort of arms. The conclusion in favour of his countrymen is very fair; at the fame time I must remark, that these very circumstances, which he produces to flew that crimes ought to abound, might, perhaps with as much truth, be quoted as reasons for their not being found. From the want of punishment and police may probably be drawn an important conclusion, that mankind are always best when not too much governed; that a great deal may fafely be left to themselves, to their own management, and to their own feelings; that law and regulation, necesfary as they may be in some cases, are apt to be carried much too feet that frequent punishments rather harden than deter offenders; and that a maze of laws, for the prefervation of the peace, with a fwarm of magistrates to protect it, hath much stronger tendency to break than to fecure it. It is fair to cornect this circumstance of compara-VOL. IV.

tive freedom from crimes, with feven theatres for only one hundred and fifty thousand people; and the admission so cheap, that the lowest of the people frequent them; more, perhaps, in favour of theatrical representations than all that Rousseau's brilliant genius could say against them. At night to another theatre, that of the tragi-comedy, where a young actress, apparently not twenty, supported the principal serious part with such justness of action, without exaggeration, and spoke this charming language with such a clear articulation and expression, as, for her age, was amazing.

The 6th. Another vifit to islands and manufactures, &c.

The 7th. My last day at Venice; I made, therefore, a gleaning of some fights I had before neglected; and called once more on my friend ----, affuring him troly, that it would give me pleafure to fee him in England, or to be of any fervice to him there. The Corriere di Bologna a covered barge, the only conveyance, fees off tonight at eleven o'clock. I have taken my place, paid my money, and delivered my baggage; and as the quay from which the barge departs is conveniently near the operahouse, and Il Burbero di buon Cuore acted for the first night, I took my leave of Signore Pet illo's excellent inn, which deferves every commendation, and went to the opera. I found it equal to what the prova had indicated; it is an inimitable performance; not only abounding with many very pleafing airs, but the whole piece is agreeable, and does honour to the genius and tafte of Signore Martini. Swift, in one of his letters to Stella, after diving with lords Oxford and Bolingbroke, and going in the evening to fome forub, fays, he hates to be a prince and a foundrel the fame day. I had to-night all this feeling with a vengeance. From the representation of a pleasing and elegant performance, the munc of which was well adapted to ftring one's feelings to a certain pitch, in clear unifon with the pleasure that sparkled in so many eyes, and founded from to many hands—I flepped at once, in full contrast, into the bank Detto Corriere di Bologna; a cabin about ten feet square, round which fat in silence, and the darkness visible of a wretched lamp, a company, whose rolling eyes examined, without one word of reception, each paffenger that entered. The wind howled, and the sain beat in at the hole left for entering. My feelings, that thrilled during the evening, were diffipated in a moment, and the gloom of my bosom was soon in unison with that of the fcenc.

Of this voyage from Venice to Bologna, all the powers of language would fail me to give the idea? would wish to impress. The time I passed in it I rank among the most difagreeable days I ever experienced, and by a thouland degrees the worst fince I left England; yet I had no choice: the roads are so infamously bad, or rather so impracticable, that there are no vetturini; even those whose fortune admits posling, make this passage by water; and when I found that Monsieur de la Lande, secretary to the French ambastador at Turin, had made the fame journey, in the fame conveyance, and yet in his book fays not a word against the accommodation, how was I to have divined, that it could prove fo execrable? A little more thought, however, would have told me that it was too cheap to be good, the price, for the whole voyage of 125 miles, is only 30 peoli (178, 6d.), for which you are boarded. After a day's spitting of a dozen pople, in ten feet fquare (enough to make a dog fick), mattreffes are spread on the ground, and you reft on them as you can, packed almost like herrings in a barrel; they are then rolled up and tumbled under a bulk, without the least attention which fide is given you the night after; add to this the odours of various tarts endy to imagine. At dinner, the cabin is the kiter en, and the padrene the co k, i. wipes his note with his fingers, and the kinde with his handkerchief, with a prepares the victuals, which he handles before ou, till you are fick of the oblace ung. But. ıđ

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on changing the bark to one whose cabin was too small to admit any cookery. he brought his fleaks and faufages, roiled up in a paper, and that in his flag of abomination (as Smollett calls a continental handkerchief), which he fpread on his knees as he fat, opening the greafy treafure, for those to eat out of his lap with their fingers, whose ftomachs could bear fuch a repaft. Will an English reader believe that there were perfons prefent who fubmitted, without a murmur, to fuch a voyage, and who were beyond the common mercantile crows one meets with in a vettura? - fome well drefted, with an appearance and convertation that betrayed nothing mean. I draw conclusions, operating flroughy against the private and domestic comforts of life, from such public vehicles: this is the only one for those who pass to and from Venice, Bologiu, Florence, Rome, and Naples, and of courfe must be exceedingly frequented; and there are no voitures by land to rival it. If these people were clean, decent, and comfortable at home, is it credible that they would fubmit to fuch a mode of travelling? The contrast would shock them as it would Englishmen, who would move heaven and earth to establish a better conveyance, at a higher price. The people who travel thus form the great mais of a nation, if we except the poor; it is of little confequence how the Cornari and the Morofini live; they live probably like great lords in other countries; but the public and national prosperity is intimately connected with the comforts and accommodations of the lower classes, which appear in Italy to be, on comparison with England, miferably inferior. Their excellences, the ariftocrats of Venice, do not travel thus; and as to the people, whether they go on their heads, or in the mud, is all one to the fpirit of their government. For myself, I walked much of the journey, and especially on the banks of the Po, for the better view of that great river, now rene dered immense by the late dreadful floods, which have deluged so much of the country. Along the banks, which are high dykes, raifed many feet against its depredations, there are matted huts at every hundred or two hundred yards, with men flationed, called guardia di Po, ready to assemble with their tools at a moment's warning, in case of a breach; they have fires all night. Soldiers also make the rounds, night and day, to see that the men are at their stations, - and to give affishance if wanted. There is a known and curious piece of roguery, against which much of this caution is bent; the mischief of a breach is so great, that when the danger becomes very imminent, the farmers in the night, crofs the river in boats, in order to bore holes in the banks, to enable the water the easier to make a breach, that by giving it a direction contrary to that of their own lands, they may render themselves secure. For this reason, the guards permit no navigation, except by privileged barks, like the corrieri, firing at all others that are feen on the river. It is now an immense body of water, twice, and in some places perhaps even thrice as broad as the Thames at London. As to the face of the country, from the Lagunes to Ferrara, it is every where nearly the same as what I have fo often described; whether grass or arable, laid out into rows of pollards, with vines trained to them, at various distances, but always near enough to give the whole the appearance of a wood, when viewed from the least distance. It does not feem to want people, towns and villages being numerous; and there are all the figns of a confiderable navigation; every village being a port, with abundance of barges, barks, boats. &c. Coffee houses remarkably abound in the Venetian dominions, at all towns, and en villages, where we palled, they are to be found, fortunately for me, as they to make amends for the dirty fingers and beaftly handkerchief of our Signore Padrone Before I entirely finish with Venice, I shall infert a new circumflances, with which I was favoured by an Italian, who refided fome time in that city. and had abilities that would not allow me to doubt of his capacity in forming a true

estimate of any political circumstance, to which he directed his attention. His account of the principal nobility of the republic is such as would explain much more than I have feen or heard in their dominions. He fays, " the education of the great is the differed of Venice. Men of the first families are not only ignorant to a degree shameful in fo enlightened an age, but they are educated in a bad ton; with ill manners, from ideas that are fuffered to be inftilled by dependents, which do not quit them through life; fixing, from early habit, the tafte for bad company; while a pernicious indulgence exempts them from all learning; that this is fo general, and is fo extensive in its influence, that, had the interior organization of this government been less admirable, it would, from this very cause, have mouldered to nothing long ago: that the pride, of which they are accused, is ascribable equally to bad company and to ignorance; the first gives them vague and improper ideas of their own importance, and the fecond infpires them with referve, to conceal their want of that knowledge which others, and especially foreigners, possess: that the ill esfects of this bad education will be seen more and more; the governments of Europe being at prefent infinitely more enlightened than in times past; and improved considerably even in the last twenty years. There is of necessity, a struggle among all nations, emulous to make the greatest progrefs in ufeful knowledge, and to apply all knowledge to the most ufeful purposes; in fuch a period, therefore (he added), any people who are stationary, and more particularly any government that is fo, will be outflripped in the great courfe by their competitors, and perhaps trampled on, like the monarchy of France, by those in whom light hath taken the place of ignorance." Pity that the richest blood in European veins should at present experience such an education!

Here are about forty families, unquestionably the most ancient in Europe. All other countries, except Venice, have been conquered, or over-run, or fo destroyed, that the oldest families may be dated comparatively from only modern periods; he who looks back to a well defined ancestry, from the tenth and eleventh centuries, and who can thus trace his lineage feven or eight hundred years, is in every country respected for antiquity; of this flanding are the families of Bourbon, d'Esté, Montmorency, Courtenaye, &c. which are commonly effected the first in Europe: but they are not efteemed fo at Venice. Some of the Roman families, which, from the ravages of the Huns, took shelter in the isles of Venice, and which were then considerable enough to be entrusted with the government of their country, yet remain, and are unquestionably the most ancient in Europe. De la Lande, from Fresdrotti, confines the electors of the first Doge to twelve-Badoer, Contarini, Morosini, Ticpolo, Michiel, Sanudo, Gradenigo, Memo, Falier, Dandolo, Barozzi, and Polano, which is of late extinct. In the next class he places Zustiniani, Cornaro, Bragadin, and Bembo; then come the families il ferrare del consiglio, Querini, Dolfini, Soranzo, Zorai, Marcello, Sagredo, Zane, and Salomon. But fince Monf. de la Lande wrote, they have published at Venice a Dizionario storico di Tutte le Venete Patrizie Famiglie, 1780; compiled from a manuscript in St. Mark's library; this work does not accord with the preceding table; I have ex-

tracted from it the following lift:

Badoer; fua origine con la republica.—Bollani; antichi tribuni.—Bragadin; nei piu rimoti fecoli della republica.—Celfi; dagli antichi Marj di Roma, antichi tribuni.—Cioran; negli elettori del primo Doge.—Contarini; uno negli elettori del primo Doge.—Cornaro; dagli antichi Corneli di Roma, d'aprimuffimi tempi tenuta in Venezia.—Emo; nacque colla medesima republica, - Foscarini; Vennero 867; antichi tribuni.—Gradenigo; delle prime venute in Venezia.—Magno; dalla prima fondazion di Venezia; tribuni.—Marcello; pare, che non si possa metter in dubio, che questa famiglia discenda dagli antichi Marcelli di Roma;

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nn; Li.bi antichi tribuni.—Michieli; antichissima di Venezia; gli elettori del primo Doge.—Mocenigo; delle prime venute in Venezia.—Molin; stabilita in Venezia 877; antichi tribuni.

Morosini; risugiti per le incurzioni di Attila; fra gli elettori del primo Doge, e antichi tribuni.—Da Mosta; Vennero 454 risugiati per Attila.—Nani; Vennero in Venezia sin dalla prima sua fondazione; antichi tribuni.—Orio; risugiati per Attila; antichi tribuni.—Pisani; dagli antichi Pisoni di Roma; dell'antico consiglio.—Querini; elettori del primo Doge.—Sagredo; Vennero nel 485.—Salomon; trà le elettrici del primo Doge.—Sanudo; dei primi fondatori della città.—Semitecolo; sin dal 843; antico consiglio.—Soranzo, senza dubbio delle prime risugite in Venezia; antichi tribuni.—Tiepolo, gli elettori del primo Doge: antichi tribuni.—Trevisan, Vennero per l'irruzione d'Attila.—Valicr, risugiti per le incursione di Attila sino dal 423; tribuni antichi.—Venier, Vennero per Attila; antichi tribuni.—Zane, antichissima famiglia di Venezia; antico consiglio.—Zen, dei 12 elettori del primo Doge. Bembo, Coco, Dandolo, Falier, Foscari, Gritti, Malipiero, Marini, Minio, Minotto, Moro, Muazzo, Nadal, Pesaro, Da Riva, Ruzini, Tron, Zusto, all these antichi tribuni.

From the details of these families it appears, that many have an origin as old as Attila the Hun, who invaded Italy in 452. If all these families be allowed to date from that period, (and no reason appears against it) their origin may be traced to more than 1300 years. The election, however, of the first Doge, in 697, by the twelve heads of the republic, is one of the most authentic and the most noted acts in the establishment of any government. To this undisputed origin the preceding list assigns the families of Civran, Contarini, Michieli, Morosini, Querini, Salomon, Tiepolo, and Zen, rejecting thus several families which have been commonly esteemed the first in the republic, and which former writers have expressly ranked among the electors of the first Doge. The only families in which both lists agree are Contarini, Michieli, Morosini, and Tiepolo: whether the others were, or were not, electors of the Doge, there is no question about their great antiquity; and it is equally certain that there are now actually at Venice from forty to fifty families which, in point of antiquity well ascertained, exceed all that are to be found in the rest of Europe.

And here I take leave of the Venetian lion; I am tired of it:--1 the state were to build a pig-stie, I believe they would decorate it with his figure. It is a beast of no merit; -- for what is ferocity without humanity, -- or courage without honour? -- It wars only to destroy; and spreads its wings not to protect, but to cover, like the vulture of Mr. Sheridan, the prey that it devours. At Ferrara, the Padrone's business stopped him a whole day; but he pretended it was a want of oxen to draw the coaches, that carried us ten miles by land, from canal to canal. This was not amifs, for it enabled me to fee every thing in that town, which, however, does not contain much. The new part-new in comparison with the rest, was built by Hercules II. Duke of Ferrara, who has laid out and diffributed the ftreets and a square in a manner that does honour to his They are all of a fine breadth, well paved, with trotoirs of brick, every where defended by stone posts. I have seen no city so regularly laid out, except Turin. The Palazzo of the Marchefe di Villa is an object to examine; and with that spot there is a very advantageous view of two noble streets. The Palazzo di Bentivoglio is another confiderable building, with a valt garden, full of bad statues; and even some of footmen, with laced hats and shoulder-knots, in a style fully as ridiculous as M. du Barrè's at Toulouze. In the cathedral, a fine Guercino; and a marriage of Cana, by Bonona, a Ferrarese painter, at the Chartreuse. I paid homage to the tomb of Ariosto, a genius of the Orlt luftre; fince al! modern ages have produced but three diffinguished epic poets, what a glory to Italy to have given birth to two of them! the wonder is greater, however, that the third was not of the fame country. From Ferrara to the canal, which leads to Bologna, the road is, without any idea of comparison, the worst in Europe, that pretends to be great and passable. It is the natural rich foil of a flat wet country, rendered deeper by the late heavy rains; seven horses drew a coach about a mile and a half an hour. Making and mending are philosophical experiments not tried here; and the country being inclosed, the hedges and ditches confine the carriages to poach through the mud of one direction. In that of many. I walked for the most part in the adjoining fields, the better to them. Arrived at Bologna at twelve o'clock at night.——125 miles.

The 12th. Deliver letters. I found Signore Bignami at home. He is a confiderable merchant, who has attended to agriculture, fentible and intelligent. An English merchant, at the Three Moors, informing me, that Mr. Taylor, who was at Carlfrhue for fome time, was now fettled at Bologna, I determined to wait on him, being the gentleman of whose hutbandry, at Difrons in Kent, I gave an account in my Eastern Teur. I accordingly went, in the evening, to Mr. T. has convertizione. He has handfome apartments in the Palazzo Zampieri, and lives here agreeably with his beautiful and amiable family; a finer progeny of daughters and fons is hardly to be feen. or that forms a more pleafing fociety. As I did not know, till I got to Bologna, that Mr. Taylor had left the Court of Carlfrhue, I was cager to hear why he had quitted a fituation which was to congenial with his love of agriculture. This gentleman, travelling in Germany, became known to the Margrave of Baden, where that enthufiaftic love of agriculture, which, for the good of markind, fome minds feel, induced him to take a farm of that prince. Thus was a gentleman, from the best cultivated part of Kent, fixed on a farm of five hundred acces in Germany. He carried his point, improved the farm, flaid four years, and would have continued to the infinite advantage of the country, if the ministers of the Margrave had had as much understanding, and as liberal a mind as their mafter. I am inclined to believe that no man can fucceed on the continent of Europe (unlefs under a prince with a character of fuch decided energy as the late King of Prutlia) provided he be really practical. He has no chance if he be not well furnished with the rubt ish which is found in academies and focieties: give him a jargon of learning, the science of names and words, letting things and practice go efferthere, and he will then make his way, and be looked up to. To the opera, where there is nothing worth hearing or feeing, except only a young finger, Signora Nava, whose voice is one of the clearest and sweetest tones I ever heard; she has great powers, and will have, for the is very young, great exprettion. It was the Theedero re di Corfica of Paiefello.

The 13th. The Pellegrino and St. Marco being full, has fixed me in this brutal hole, I Tre Maurretti which is the only execrable inn I have been inn (in a city) fince I entered Italy. It has every circumflance that can render it deteffable; dirt, negligence, filth, vermin, and impudence. You fit, walk, ear, drink, and fleep with equal inconvenience. A tour among the palaces and churches. The great collection of paintings in the Zampieri palace contains a few pieces of fuch exquifite merit, that they rivet the fpectator by admiration. The St. Peter, of Guido; the Hagar, of Guercino; and the Dance, of Albano. Monf. Cochin fays, the Guido is no only a chef d'auvere, but the finest picture in Italy, ensin else mental described d'auvere. It is certainly a most noble piece of two figures, but wants, of necessity, the poerry of a tale told by many. To please me, the Guercino, of which he says little more than its being très beau, has an expression described, that works on a sine subject to a great effect: it is more nature

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Hagar's count nance speaks a language that touches the heart; and the pathetic simplicity of the chatel is in unifon with all the mother's feelings. The mellow warmth and tender toftness of the colouring of the Albano, with the fweetness of the expression, are inimitable. In the church of St. Giovanne in Monte, there is the famous St. Cecilia of Raphael, of which Sir Robert Strange has given fo fine a print, and in which he has done ample justice to the original. The St. Agnes of Domenichino, in the church of that name, and Job on his throne, by Guido, at the Mendicanti, are two others that must be visited. Dine with Signore Bignami; he is a confiderable merchant, and therefore I need not stare at this hospitality in Italy; with great fatisfaction I find that no minute is lost in his company, as he is obliging enough to pardon the number of my enquiries. In the evening to Mr. Taylor's; this gentleman's difcourfe is interesting to my pursuit, for he has always had a great predilection for a riculture, and has practifed it with intelligence and faceefs. The Marchefe di Mareichotti, who is married to a very pretty English lady, present also; a sensible man, who feemed pleafed with the opportunity of explaining to me feveral circumftances, relative to tythes and taxation, that I was enquiring into. He is a fingular inflance at Bol, gna, of going into company with his wife, and confequently fuperfeding the necoffity or want of a cicifbeo. He is regarded by his countrymen for this, pretty much as he would be if he walked on his head, instead of his feet. How strangely doth it appear to them, that an Italian nobleman should prefer the company of a woman he married from affection, and think there is any pleafure when he embraces his children, in believing them his own! Here I met also the Baron de Rovrure, a French noblem...t, and Madame la Marquife de Bouille, both in their way to Naples; they feem agreeable people. Mr. Taylor, and his two charming daughters, have apparently a pl afing fociety here. Thefe ladies fpeak French and German like natives, and before they leave Italy will do the fame with Italian; they paint agreeably, and have confiderable nuffical talents; thus accomplishments will not be wanted to second the graces th y owe to the beneficence of nature. I had fome information from Mifs Taylor, tonight, relative to the expenses of housekeeping, which will give an idea of the cheapnefs of Italy; premifing (of which more in another place that the paolo is fixpence, and that there are 10 baiocchi in it. As to beef, mutton, bread, &c. they are all over Europ too nearly on a par to demand much attention; where meat is very fine, it is nominally dear; and where it is bad, it is called cheap: but the difference deferves lin! notice. Mr. Taylor contracts with a traiteur for his table, nine in the parlour and tive in the kitchen, 20 paoli a day for dinner; for supper he pays extra, and is supplied to his fatisfaction—a proof, if any be wanted, of the cheapness of Bologna. It is remarkable that there is not the difference between the prices of any of the articles, and the fame thing in England, that there is between the contracting prices, and the ratio with us, a few per cent, in the former, but fome hundred per cent, in the latter; a fure proof that dearness and cheapness of living does not depend on prices per pound, but on the modes of living. Every tavern-keeper, traiteur, or other contractor of any fort in England, will have a price that shall give him a fortune in a few years; and fervants, inflead of fubmitting to the economy which their mafters may think it necoffary to establish, will not live an hour with them if they are not permitted to de-

The 14th, with Signore Bignami and his family, to his country feat, about five miles from Bologna, on the road to Piftoia; fpend an agreeable day, entirely dedicated to farming. The house is handsome, and finely fituated: the entertainment truly hospitable, and the information, given in a cool confiderate walk, through every field of the

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farm, such as is little liable to error. A circumstance at this country seat deferves noting, as it marks the abundance of thieves: the chambers had the windows all thus so close, and fastened with so much attention, that I enquired the reason; and was answered, that if the greatest care be not taken, thieves will break in, and plunder a house of every thing portable. The shutters, to both windows and doors, were inlaid with bars of iron, to prevent their being sawn through. The conclusion we must draw from such a circumstance is certainly little savourable, at first sight, to the lower classes, but that is always unjust, for they are ever what the police, law, and government of a country make them. In the evening, again at Mr. Taylor's; a house, in which no one will have the entré, and want the inclination. The Marchese Mareschotti there, who had the goodness to continue his attentions to my enquiries, and to give me some valuable information: I had also the pleasure of conversing, on the same subjects, with the Conte di Aldrovandi.

There is a room, at the *Tre Mauretti*, which, communicating with feveral apartments, the guells have it in common: among them was a young *Ballatrice*, waiting here for an Englithman, to attend her to Venice; the was pretty and communicative; had fome expensive trinkets given her, to the amount of a considerable sum, by her lover, who proved (for secrecy was not among her qualities) to be a rider, as we should call him, to a manufacturing house in England. An Italian merchant present remarked, that the profit of the English on their manufactures, must be enormous, or they could not support *commissarii* at such an expence, some of whom travel in Italy post, from town to town, and, when arrived, amuse themselves, it is plain, with such comforts as the good humour of the country throws in their way.

The 15th. The rencontre at Mr. Taylor's of the French gentleman, the Baron de Rovrure, and Madame de Bouille, has been productive of an engagement to travel together to Florence, with Signore Grimaldi, and Mr. Stewart, a Scotch gentleman *, just arrived from Geneva, and going also to Florence. We set off in three vetture this morning. The country from Bologna to Florence is all mountainous; most of it poor and barren, with shabby, ragged, ill preserved wood, spotted with a weak and straggling cultivation. Houses are scattered over most of it, but very thinly. We dined at Loiano, much in the flyle of hogs; they spread for us a cloth, that had loft, by the fnuff and greafy fingers of vetturini, all that once was white; our repail was black rice broth, that would not have difgraced the philosophy of Lycurgus, liver fried in rancid oil, and cold cabbage, the remnant of the preceding day. We pleaded hard for faufage, eggs, or good bread and onions, but in vain. We laid, not flept in our clothes at Covigliano, hoping, not without fears, to escape the itch. Such accommodations, on such a road, are really incredible. It is certainly one of the most frequented that is to be found in Europe. Whether you go to Florence, Rome, and Naples, by Parma, Milan, or Venice; that is, from all Lombardy, as well as from France, Spain, England, Germany, and all the north, you pass by this route, consequently one would expect, at every post, a tolerably good inn, to catch the perfons whom accident, bufinefs, or any other derangement of plan might induce to flop between Bologna and Florence. The only place poffible to fleep at, with comfort, is Maschere, about forty miles from Bologna, but, for travellers who go any other way than post, forty miles are no division of fixty-four. If the road were in England, with a tenth of the traffic, there would be an excellent inn at every four or five miles, to receive travellers properly, at whatever diffance their accidental departure made most convenient: but England and Italy have a gulph between them

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^{*} Travelling with a young gentleman, a Mr. Kinloch.

in the comforts of life, much wider than the channel that parts Dover and Calais .-

27 miles.

The 16th. On entering Tuscany, our baggage was examined, and plumbed for Florence; the first moment I set foot in this country, therefore, I find one gross error of the æconomiftes, who have repeated, from one another, in at leaft twenty performances, that the grand Duke had adopted their plan, and united all taxes in one, upon the net produce of land. Having croffed the highest ridge of the Appenines, for several miles in the clouds, and therefore feeing no prospect, descended at Maschere, for a while, in a better region; from the inn, the view is rich and fine. We noted here a wonderful improvement in the figure and beauty of the fex; the countrywomen are handfome, and their drefs is very becoming; with jackets, the fleeves puckered and tied in puffs, with coloured ribbons; broad hats, fomething like those worn by ladies in England with riding habits; their complexions are good, and their eyes fine, large, and expreffive. We reached Florence, with just light enough to admire the number of white houses spread thickly every where over the mountains that surround the city. But before we enter, I must say a word or two of my French fellow travellers: Monf. le Baron is an agreeable polite man, not deficient in the power to make observations that become a person of sense: the life of Madame de Bouille would, if well written, form an entertaining romance; she went, early in the last war, to St. Domingo with her husband, who had a confiderable property there; and on her return she was taken in a French frigate, by an English one, after a very smart engagement of three hours, and carried into Kinfale, whence she went to Dublin, and to London: this is an outline which flie has filled up very agreeably with many incidents, which have kept her in perpetual motion; the prefent troubles in France have, I suppose, added her and the Baron to the infinite number of other French travellers, who fwarm, to an incredible degree, every where in Italy. She is lively, has much conversation, has seen a good deal of the world, and makes an agreeable compagnon de voyage.----37 miles.

The 17th. Last night, on arriving here, we found the Aquila Nera, and Vanin's so sull, that we could not get chambers; and the great Mr. Meggot looked into our cabriolets to examine us, before he would give an answer, pretending, that his were bespoken; and then assure us, as we had no air that promised good plucking, the big were engaged. At the Scudi di Francia, where there are many excellent and well and inshed apartments, we found all we wanted, but dearer than common, ten park the company divide, to find lodgings. Waited on Mons. de Streinesberg, the Chamber private secretary, for whom I had letters: I am out of luck, for he is immended and engagements, as the court goes to Pisa to-morrow morning, for This, I suppose, is of no consequence to me, for what court is there in the world that would give or receive information from a farmer? The objects for which I travel are of another complexion from those which smooth our paths in a court. And yet the Grand Duke has the reputation of being, in respect to the objects of his attention, the wisest prince in Europe. So much for the sovereign of this country—let me but find

fome good farmers in it, and I shall not be discontented.

The 18th. Fixed this morning in lodgings (del Sarte Inglese via dei Fossi,) with the Marchioness, the Baron, and Mr. Stewart. My friend, Professor Symonds, had given me a letter to his Excellency Philippo Neri, who I found was dead; but hearing that his brother, Signore Neri, was not only living, but president of the Georgosili Society, I waited on him, and gave him the letter that was designed for his late brother; he received me politely, and recollecting the name of Young, being quoted by the Marquis Vol. 17.

de Cassaux, in his "Mechanism des Societes," and being informed that I was the perfon, remarked, that this ingenious writer had made fome use of my calculations, to found his theory of the national debt of England; a very curious subject, on which he should like much to converse with me: and asked, if I looked upon that debt as so harmless? I told him, that I thought Monf. de Cassaux's book full of original and ingenious remarks, and many important ones, particularly his condemnation of the colonizing fyftem; but that as to the national debt of England, it originated in the bravery of those who borrowed, and in the folly of those who lent; perpetuating taxes that took money from industrious people, in order to give it to idle ones. That the liberty of England enabled it to flourish beyond that of any other society in the world, not because it had a national debt, but in spite of so great an evil. - Well, Sir, he replied, I have just the idea of it that you have, and I could not conceive how a country could pay eight or nine millions of guineas a year, in interest, without being the weaker and poorer. He then enquired into my plan, commended highly the object of my journey, which, he was pleased to say, had so little resemblance to that of the great mass of my countrymen, that he hoped I met with no impediments in gaining the information I wished; and added, that he was very forry he was going to Pifa, or he thould have been happy in procuring me all in his power, though he was no practical farmer. Signore Neri appears to be well informed, fenfible, and judicious; has a large collection of books, on ufeful fubjects, particularly the various branches of political economy, which he shews, by his conversation, to have consulted with effect.

After all I had read and heard of the Venus of Medicis, and the numberless casts I had feen of it, which have made me often wonder at descriptions of the original, I was eager to hurry to the tribuna, for a view of the dangerous goddefs. It is not easy to speak of fuch divine beauty, with any fobriety of language; nor without hyperbole to express one's admiration, when felt with any degree of enthuliasm; and who but must feel admiration at the talents of the artift, that thus almost animated marble? If we suppose an original, beautiful as this flatue, and doubly animated, not with life only, but with a passion for some favoured lover, the marble of Cleomenes is not more inserior to such life, in the eyes of fuch a lover, than all the calls I have feen of this celebrated flatue are to the inimitable original. You may view it till the unfleady eye doubts the truth of its own fenfation: the cold marble feems to acquire the warmth of nature, and promifes to yield to the impression of one's hand. Nothing in painting to miraculous as this. A fure proof of the rare merit of this wonderful production is, its exceeding, in truth of representation, every idea which is previously formed; the reality of the chiffel goes beyond the expedancy of imagination; the visions of the fancy may play in fields of creation, may people them with nymphs of more than human beauty; but to imagine life thus to be fashioned from flone; that the imitation shall exceed, in perfection, all that common nature has to offer, is beyond the compass of what ordinary minds have a power of conceiving. In the fame apartment there are other statues, but, in the presence of Venus, who is it that can regard them? They are, however, fome of the finest in the world, and must be reserved for another day. Among the pictures, which indeed form a noble collection, my eyes were rivetted on the portrait of Julius II. by Raphael, which, if I possessed, I would not give for the St. John, the favourite idea he repeated so often. The colours have, in this piece, given more life to canvafs, than northern eyes have been accustomed to acknowledge. But the Titian!-enough of Venus; -- at the same moment to animate marble, and breathe on canvafs, is too much. By hufbanding the luxury of the fight, let us keep the eye from being fatiated with fuch a parade of charms: retire to repose on the insipidity of common objects, and return another day, to gaze

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with fresh admiration. In the afternoon, by appointment, to Signore Preposito Lastri, author of the Corfo d'Agricoltura, and other much esteemed works, to whom I had letters. He was to have carried me to Signore Zucchino, director of the economical garden, for whom also I had recommendations; I hoped to escape seeing this gardenand the rain feconded my wishes, for it would not allow us to stir; and that gentleman coming to Signore Lastri's, I had the pleasure of a conversation on our favourite topic. Signore Zucchino feems an animated character, speaks of agriculture in a style that gives me a good opinion of his purfuits; made me very friendly offers of whatever affiftance was in his power, during my flay at Florence, and appointed another day for viewing the occonomical garden. At night to the opera, the Trame del Luff, of Cimarofa; the rensic as good as the singing bad, and the dancing execrable. An English gentleman, . the name of Harrington (the younger,) whom I had met at Mr. Taylor's, at Bologna, entering into conversation, mentioned, among other topics, that the Margrave of Anfpach, who is here with Lady Craven, wifhed to know me perfonally, in order to fpeak to me on the fubject of Spanish sheep, his highness having imported them to Anspach. I replied, that, on a farming topic, I fliould be happy in the converfation of any prince, who loved the fubject enough to import a better breed. The father foon after joining us, and probably having been told, by his fon, what had passed, observed to me, that the Margrave was very fond of agriculture, and had made great improvements; adding, "that if I wanted to be introduced to him, he would introduce me." This was another business;—my expressing a defire to be presented to a sovereign prince, not at his own court, appeared to be an awkward intrufion; for no idea could be more difguilful to me, than that of pushing myself into such company. I replied, therefore, that if it were the defire of the Margrave to have any converfation with me, and he would inform me of it, in any way he thought proper, I would certainly pay my respects to him, with great readiness. The Margrave was at the opera; Mr. Harrington quitted me, as if to go to him. I suppose the conversation was misunderstood, for Lady Craven does not feem, by her book, to be much of a farmer.

The 19th. Call on Signore Tartini, fecretary to the royal academy Georgofili, and on Lord Hervey, our minister here; both absent. Another turn in the gallery brought a repetition of that pleafure which is there to be reaped, in the exuberance of a plentiful harvest. The woman, lying on a bed, by Titian, is probably the finest picture, of one figure, that is to be feen in the world. A fatyr and nymph, by Hannibal Caracci; a Correggio; a Carlo Dolci. Among the flatues—the Apollo, the Wrestlers, the Whetter, as it is called, the Venus rifing from the bath, the Ganimede. What an amazing collection! I have been many years amufing myfelf with looking at the statues in England! very harmlefsly: - my pleafure of that kind is at end. In fpite of every effort to the contrary, one cannot (unless an artist, who views not for pleasure but as a critic) help forming eternal comparisons, and viewing very coldly pieces that may perhaps have merit, but are inferior to others which have made a deep impression. But the paintings and flatues in this gallery are in fuch profusion, that, to view them with an attention adequate to their merit, one ought to walk here two hours a day for fix months. In the afternoon, waited on Signore Fabbroni, author of fome works on agriculture, that have rendered him very well known, particularly a little treatife in French, entituled, Reflexions fur l'etat actuel de l'Agriculture," printed at Paris in 1780, which is one of the best applications of the modern discoveries in natural philosophy to agriculture, that has been attempted; it is a work of confiderable merit. I had two hours very agreeable and instructive conversation with him: he is lively, has great fire and vivacity, and that valuable talent of thinking for himfelf, one of the best qualities a man can possess; without which; we are little better than horses in a team, trammelled to follow one another. He is very well instructed also in the politics of Tuscany, connected with agriculture.

The 20th. Early in the morning, by appointment to Signore Tartini, to whose attentions I am obliged, not only for a convertation on my favourite subject, but for some books of his writing, which he prefented me with; among others, the Giornale d'Agricoltura di Firenze," which was dropped for want of encouragement. He accompanied me to Signore Laftri's, and then we went together to the economical garden of Signore Zucchino, for which the Grand Duke allows three hundred crowns a-year, befides fuch labour as is wanted; and the profesior reads lectures in fummer. The establishment of fuch a garden does honour to a fovereign; because it marks an attention to objects of importance. But it is greatly to be regretted they do not go one step further, and, instead of a garden, have a farm of not less than three hundred English acres; most of them are possessors of farms; a well situated one might easily be chosen, and the whole conducted at an expense that would be amply repaid by the practical benefits flowing from it. Signore Zucchino's garden is much cleaner, and in neater order than any other I have feen in Italy: but it is not easy to form experiments in a few acres, that are applicable to the improvement of a national agriculture. He is an active, animated character, attached to the purfuit (no finall merit in Italy,) and would make a very good use of his time, if the Grand Duke would do with him as the King of Naples has done by his friend Signore Balfamo—fend him to practife in England. I told him fo, and he liked the idea very much. We had fome conversation concerning Signore Balfamo, agreeing that he had confiderable talents, and great vivacity of character. I regretted that he was to flay only a year in England; but admitted, that there were few men who could make fo good a use of so short a period. Signore Zucchino shewed me the MS. account of my farm, which Signore Baifamo had fent him *. A professor of agriculture in Sicily, being fent by his fovereign, and wifely fent, to England for inftruction in agriculture, appears to me to be an epoch in the hillory of the human mind. From that ifland, the most celebrated of all antiquity for fruitfulness and cultivation, on whose exuberance its neighbours depended for their bread—and whose practice the greatest nations confidered as the most worth vof imitation; at a period too when we were in the woods, contemned for barbarity, and hardly confidered as worth the trouble of conquering. What has effected fo enormous a change? Two words explain it, we are become free, and Sicily enflaved. We were joined, at the garden, by my good friend from Milan, the Abbate Amoretti, a new circumstance of good fortune for me. To-day, in my walk in the gallery, I had fome converfation with Signore Adamo Fabbroni, brother of the gentleman I mentioned before, and author also of some differtations on agriculture; particularly Sopra il quesito indicare le vere teeri delle stime dei terreni" from which I inferted an extract in the Annals of Agriculture,—alfo a Journal of Agriculture, published at Perugia, where he resided seven years; but as it did not succeed for more than three, he dropped it. It is remarkable how many writers on this fubject there are at prefent at Florence: the two Fabbronis, Lastri, Zucchino, Targioni, Paoletti, whom I am to vifit in the country, attended by Signore Amoretti; they fay he is the most practical of all, having refided constantly on his farm. I spent an hour very agreeably, contemplating one statue to-day, namely, Bandinelli's copy of the Laocoon, which is a pro-

^{*} I fixed him in my neighbourhood in Suffolk.

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duction that does honour to modern ages; I did not want this copy to remind me of another most celebrated one, and of the many very agreeable and instructive hours I have spent with its noble owner the Earl of Orford.

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The 21st. Signore Tartini had engaged the Abbate Amoretti, and myself, to go this day to his country-seat, but it rained incessantly. The climate of Italy is such as will not make many men in love with it; on my conscience, I think that of England infinitely preserable. If there were not great powers of evaporation, it would be uninhabitable. It has rained, more or less, for five weeks past; and more, I should conceive, has fallen, than in England in a year. In the evening to the conversazione of Signore Fabbroni, where I met Signore Pella, director of the gallery; Signore Gaietano Rinaldi, director of the posts; another gentleman, administrator of the Grand Duke's domains, I forget his name; the Abbate Amoretti, &c. It gave me pleasure to find, that the company did not assemble in order to converse on the trivial nonsense of common topics, like so many coteries in all countries. They very readily joined in the discussions I had with Signore Fabbroni; and Signora Fabbroni herself, who has an excellent understanding, did the same. By the way, this lady is young, handsome, and well made; if Titian were alive, he might form from her a Venus not inferior to those he has immortalized on his canvass; for it is evident, that his originals were real, and not ideal beauty. Signore Fabbroni is here, but where is Titium to be found?

nora Fabbroni is here, but where is Titian to be found? The :2d. In the forenoon to the converfazione of the fenator Marchefe Ginori, where were assembled some of the letterati, &c. of Florence; the Cavaliere Fontana, so well known in England for his eudiometrical experiments, Zucchino Lastri, Amoretti, the Marchefe Pacci, who has a reputation here for his knowledge of rural affairs, Signore Pella, &c. The conversazioni are commonly in an evening, but the Marchese Ginori's is regularly once a week in a morning; this nobleman received me very politely: indeed he is famous for his attention to every object that is really of importance; converfes rationally on agriculture, and has himfelf, many years ago, established, in the neighbourhood of Florence, one of the most considerable manufactories of porcelain that is to be found in Italy. Dine with his Majesty's envoy extraordinary, Lord Hervey, with a great party of English; among whom were Lord and Lady Elcho, and Mr. and Miss Charteris, Lord Hume, Mr. and Mrs. Beckford, Mr. Digby, Mr. Tempeft, Dr. Cleghorn, professor of history at St. Andrew's, who travels with Lord Hume, with ten or a dozen others. I had the honour of being known to Lord and Lady Hervey in Suffolk, so they were not new faces to me; of the others, I had never feen any thing: the company was too numerous for a conversation, from which much was to be gained. I sat by the fellow of an English college; and my heels had more convertation with his fword than I had with its owner: when a man begins every fentence with a cardinal, a prince, or a celebrated heauty, I generally find myfe in too good company; but Mifs Charteris, who feems a natural character, and was at her case, confoled me on the other fide. At this dinner (which, by the way, was a splendid one), I was, according to a cultom that rarely fails the world dreffed man in the company; but I was clean, and as quietly in repole on that head, as if I had been eit r fine or elegant. The time was, when this fingle circumflance would have made me out of countenance, and uneafy. Thank my stars, I have buried that folly. I have but a poor opinion of Quin, for declaring that he could not afford to go plain: he was rich enough, in wit, to have worn his breeches on his head, if he had pleafed; but a man like myfelf, without the talent of convertation, before he haswell arranged his feelings, fin 's rell I in a good cont or a diamond ring. Lord Hervey, in the most triendly manner, defined I would make his table my own, while I was at Florence, -that I should always find a cover, as bree o'click, for dinners are not the custom here, and you will very rarely find me from home. This explains the Florentine mode of living; at Milan, great dinners are perpetual, here the nobility never give them. I have no idea of a society worth a farthing, where it is not the custom to dine with one another. Their conversazioni are good ideas, when there are no cards,—but much inferior to what one has at a dinner for a select party. In England, without this, there would be no conversation; and the French custom, of rising immediately after it, which is that also of Italy, destroys, relatively to this object, the best hour in the

whole day.

The 23d. To the gallery, where the horrible tale of Niobe and her children is told fo terribly well in stone, as to raise in the spectator's bosom all the powers of the pathetic. The action of the miferable mother shielding the last of her children against the murdering shafts of Apollo, is inimitable; and the figure of that youngest of the children, perfection. The two figures, which strike me most, are the son who has gathered his drapery on his left arm, and the companion, a daughter, in the opposite corner. The expression of his face is in the highest perfection, and the attitude, and whole figure, though much repaired, incomparable. The daughter has gathered har drapery in one hand, behind her, to accelerate her flight; she moves against the wind, and nothing can be finer than the polition and motion of the body, appearing through the drapery. There are others of the group also, of the greatest force and fire of attitude; and I am happy not to be a critic instructed enough to find, as Mons. de la Lande fays, that the greatest part of the figures are bad. They certainly are not equal; they are the work of Scopas, a Greek sculptor. Dine with Lord Elcho, at Meggot's hotel; Lord Hume, Mr. T. mpest, Mr. Tyrrhit, as well as Lord Elcho's family and Dr. Cleghorn, prefent: fome agreeable converfation; the young perfons have engaged in sport to walk on foot to Rome; right-I like that. If the Italians be curious in novelty of character, the passing English are well framed to give it.

The 24th. In the morning, with Abbate Amoretti, and Signore Zucchino to the porcelain manufacture of the Marchese Ginori, four miles to the north of Florence. It is said to be in a flourishing state, and the appearance of things answers the description. It is a good fabric, and many of the forms and the designs are elegant. They work casts of all the antique statues and bronzes, some of which are well executed. Their plates are a zechin each (9s.) and a complete service, for twelve covers, 107 zechins. To the Marchese Martelli's villa; a very handsome residence. This nobleman is a friend of Signore Zucchino, and, understanding our intention, of making it a farming day as well as a manufacturing one, ordered a dinner to be prepared, and his factor to attend for giving information, apologizing for his own absence, on account of a previous engagement. We found a very handsome repast; too much for the occasion:—and we drank—alla Inglese, success to the plough! in excellent wine. The factor then conducted us over the farm: he is an intelligent man, and answered my numerous enquiries, apparently with considerable knowledge of the subject. Re-

turned at night to Florence.

The 25th. Early in the morning, with Signore Amoretti, to Villa Magna, feven miles to the fouth of Florence, to Signore Paoletti; this gentleman, curé of that parifh, had been mentioned to me as the most practical writer on agriculture, in this part of Italy, having resided always in the country, and with the reputation of being an excellent farmer. We found him at bome, and paned a very instructive day, viewing his farm, and receiving much information. But I must note, that to this expression, farm, must not be annexed the English idea; for Signore Paoletti's consists of three poderi, that is, of three houses, each with a farmer and his family, alla metà, who cul-

tivate the ground, and have half the produce. It is unnecessary to observe, that whenever this is the case, the common husbandry, good or bad, must be pursued. It will furprise my English readers to find, that the most practical writer at Florence, of great reputation, and very defervedly fo, has no other than a metayer farm. But let it not be thought the least reflection on Signore Paoletti, fince he classes in this respect, with his fovereign, whose farms are in the same regimen. Signore Poletti's maples for vines appeared to be trained with much more attention than common in Tuscany, and his olives were in good order. This day has given me a specimen of the winter climate of Italy; I never felt fuch a cold piercing wind in England. Some fnow fell; and I could fearcely keep myself from freezing, by walking four or five miles an hour. All water not in motion from its current or the wind, was ice; and the ificles, from the dripping fprings in the hills, were two feet long. In England, when a fierce N. E. wind blows in a sharp frost, we have such weather; but, for the month of November, I believe fuch a day has not been felt in England fince its creation. The provision of the Fiorentines against such weather is truly ridiculous: they have not chimnies in more than half the rooms of common houses; and those they do not use; not because they are not cold, for they go shivering about, with chattering teeth, with an idea of warmth, from a few wood ashes or embers in an earthen pan; and another contrivance for their feet to rest upon. Wood is very dear, therefore this miserable succedaneum is for economy. Thank God for the coal fires of England, with a climate lefs fevere by half than that of Italy! I would have all nations love their country; but there are few more worthy of such affection than our blessed isle, from which no one will ever travel, but to return with feelings fresh strung for pleasure, and a capacity renovated by a thoufand comparisons for the enjoyment of it.

The 26. To the Palazzo Pitti. I have often read about ideal grace in painting, which I never well comprehended, till I faw the Madonna della Sedia of Raphael. I do not think either of the two figures, but particularly the child, is strictly in nature; yet there is fomething that goes apparently beyond it in their expression; and as paffion and emotion are out of the question, it is to be resolved into ideal grace. The air of the virgin's head, and the language of the infant's eyes, are not easily transfused by copyills. A group of four men at a table, by Rubens, which, for force and vigour of the expression of nature, is admirable. A portrait of Paul III, by Titian, and of a Medicis, by Raphael. A virgin, Jesus, and St. John, by Rubens, in which the expression of the children is hardly credible. A Magdalen, and portrait of a woman in a a fearlet habit, by Titian. A copy of Corregio's holy family, at Parma, by Barrocio Cataline, a copy of Salvator Rofa, by Nicolo Caffalve; and last, not least, a marine view, by Salvator. -But to enumerate fuch a vast profusion of fine pieces, in so many splendid apartments, is impossible; for few sovereigns have a finer palace, or better furnished. Tables inlaid, and curiofities, both here and at the gallery, abound, that deferve examination, to mark the perfection to which these arts have been carried, in a country where you do not find, in common life, a door to open without wounding your knuckles, or a window that thuts well enough to exclude the Appenine fnows. The gardens of this palace contain ground that Brown would have made delicious, and many fine things that

itineraries, guides, and travels dwell amply on.

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The 27th. To the palace Po gio Impai ie, a country-feat of the grand Duke's, only a mile from Florence, which is an excellent house, of good and well proportioned rooms, neatly fitted up and furnished, with an air of comfort without magnificence, except in the article beds, which are below par. There is a fine vettibule and faloon, that, in hot weather, mult be very pleafant; but our party were frozen through all the

the house. Lord Hervey's rooms are warm, from carpets and good fires; but those are the only ones I have feen here. We have a fine clear blue fky and a bright fun, with a sharp frost and a cutting N. E. wind, that brings all the snow of the Alps, of Hungary, Poland, Russia, and the frozen ocean to one's sensation. You have a sun that excites perspiration, if you move fast; and a wind that drives ice and snow to your vitals. And this is Italy, celebrated by fo many hafty writers for its delicious climate! To-day, on returning home, we met many carts loaded with ice, which I found, upon measure, to be four inches thick; and we are here between latitude 43, and 44. The green peafe in December and January, in Spain, shew plainly the superiority of that climate, which is in the fame latitude. The magnitude and fubstantial folidity with which the Palazzo Ricardi was built, by a merchant of the Florentine republic, is aftonishing; we have, in the north of Europe (now the most commercial part of the globe), no idea of merchants being able to raife fuch edifices as thefe. The Palazzo Pitti was another instance; but as it ruined its master, it deserves not to be mentioned in this view; and there are at Florence many others, with fuch a profusion of churches, that they mark out the same marvellous influx of wealth, arifing from trade. To a mind that has the least turn after philosophical inquiry, reading modern history is generally the most tormenting employment that a man can have; or is plagued with the actions of a detestable fet of men, called conquerors, heroes, a. great generals; and we wade through pages loaded with military details; but when you want to know the progress of agriculture, of commerce, and industry, their effect in the rent ages and nations on each other—the wealth that refulted—the divifion of that wealth—its employment—and the manners it produced—all is a blank. Voltaire fet an example, but how has it been followed? Here is a cicling of a noble faloon, painted by Luca Giordano, representing the progress of human life. 'The invention and poetry of this piece are great, and the execution such as must please every one. The library is rich; I was particularly struck with one of the rooms that contains the books, having a gallery for the convenience of reaching them, without any difagreeable effect to the eye. In England we have many apartments, the beauty of which is ruined by these galleries: this is thirty-fix feet by twenty-four, within the cases, well lighted by one moderate window; and is so pleasing a room, that if I were to build a library, I would imitate it exactly. After vifiting the gallery, and the Palazzo Pitti, we are naurally nice and fastidious, - yet in the Palazzo Ricardi are some paintings that may be viewed with pleasure. In the evening to the convers one of Signore Fabbroni; the affembly merits the name; for some of the best instructed people at Florence meet there, and discuss topics of importance. Signore Fabbroni is not only an economiste, but a friend to the Tuscan mode of letting farms alla metà, which he thinks is the best for the peasants; his abilities are great; but facts are too stubborn for him.

The 29th. Churches, palaces, &c. In the afternoon to St. Firenze, to hear an oratorio. At night to a concert, given by a rich Jew on his wedding: a folo on the vio-

lin, by Nardini.—Crouds—candles—ice—fruits—heat—and—fo forth.

The 30th. To Signore Fabbroni, who is fecond in command under il Cavaliere Fontana, in the whole mufeum of the Grand Duke; he shewed me, and our party, the cabinets of natural history, anatomy, machines, pneumatics, magnetism, optics, &c. which are ranked among the finest collections in the world; and, for arrangement, or rather exhibition, exceed all of them; but note, no chamber for agriculture; no collection of machines, relative to that first of arts; no mechanics, of great talents or abilities, employed in improving, easing, and simplifying the common tools used by the husband-

bandman, or inventing new ones, to add to his forces, and to leffen the expence of his efforts! Is not this an object as important as magnetifm, optics, or altronomy? Or rather, is it not fo infinitely superior, as to leave a comparison absurd? Where am I to travel, to find agricultural establishments, on a scale that shall not move contempt? If I find none fuch in the dominions of a prince reputed the wifest in Europe, where am I

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to go for them? Our Annual Register gave such an account, a few years past, of the new regulations of the Grand Duke, in relation to burials, that I have been anxious to know the truth, by fuch inquiries, on all hands, as would give me not the letter of the law only, but the practice of it. The fact, in the above-mentioned publication, was exaggerated. The bodies of all who die in a day are carried in the night, on a bier, in a linen covering (and not tumbled naked into a common cart), to the church, but without any lights or finging; there they receive benediction; thence they are moved to a house, prepared on purpose, where the bodies are Inid, covered, on a marble platform, and a voiture, made for that use, removes them to the cemetery, at a distance from the city, where they are buried, without distinction, very deep, not more than two in a grave, but no coffins used. All persons, of whatever rank, are bound to submit to this law, except the Archbishop, and women of religious orders. This is the regulation and the practice; and I shall freely fay, that I condemn it, as an outrage on the common feelings of mankind; chiefly, because it is an unnecessary outrage, from which no use whatever flows. To prohibit lights, finging, processions, and mummery of that fort, was rational; but are not individuals to drefs, and incafe the dead bodies, in whatever manner they please? Why are they not permitted to send them, if they chuse, privately into the country, to some other burying place, where they may rest with fathers, mothers, and other connections? Prejudices, bearing on this point, may be, if you pleafe, ridiculous; but gratifying them, though certainly of no benefit to the dead, is, however, a confolation to the living, at a moment when confolation is most wanted, in the hour of grief and mifery. Why is the impassioned and still loving husband, or the tender and feeling bosom of the father, to be denied the last rites to the corpse of a wife or a daughter, especially when such rites are neither injurious nor inconvenient to society? The regulations of the Grand Duke are, in part, entirely rational,—and that part not in the least inconsistent with the consolation to be derived from a relaxation in some other points. But, in the name of common fense, why admit exceptions? Why is the Archbishop to have this favour? Why the religious? This is absolutely destructive of the principle on which the whole is founded; for it admits the force of those prejudices I have touched on, and deems exemption from their tie as a favour! It is declaring fuch feelings follies, too abfurd to be indulged, and, in the fame breath, affigning the indulgence, as the reward of rank and purity! If the exemption be a privilege fo valuable, as to be a favour proper for the first ecclesiastic, and for the religious of the fex only,-you confess the observance to be directly, in such proportion, a burthen, and the common feelings of mankind are fanctioned, even in the moment of their outrage. Nothing could pardon such an edice, but its being absolutely free from all exemptions, and its containing an express declaration and ordinance to be executed, with rigour, on the bodies of the Prince himself, and every individual of his family.

December 1. To the shop of the brothers Pisani, sculptors, where, for half an hour I was foolish enough to wish myself rich, that I might have bought Niobe, the gladiator, Diana, Venus, and fome other casts from the antique statues. I threw away a few paols, instead of three or four hundred zechins. Before I quit Florence, I must ob-VOL. IV.

ferve, that befides the buildings and various objects I have mentioned, there are numberlefs, which I have not feen at all;—the famous bridge Ponte della Santa Trinità deferves, however, a word: it is the origin of that at Neuillé and others in France, but much more beautiful; being indeed the first in the world. The circumstance that strikes one at Florence, is the antiquity of the principal buildings; every thing one sees confiderable, is of three or four hundred years flanding; of new buildings, there are next to none; all here remind one of the Medicis: there is hardly a ffreet that has not fome monument, fome decoration, that bears the stamp of that splendid magnificent family. How commerce could enrich it fufficiently, to leave fuch prodigious remains, is a question not a little curious; for I may venture, without apprehension to affert, that all the collected magnificence of the House of Bourbon, governing for eight hundred years twenty millions of people, is trivial, when compared with what the Medicis family have left, for the admiration of fucceeding ages - fovereigns only of the little mountainous region of Tuscany, and with not more than one million of subjects. And if we pass on to Spain, or England, or Germany, the same astonishing contrast will strike us. Would Mr. Hope, of Amsterdam, said to be the greatest merchant in the world, be able, in this age, to form establishments, to be compared with those of the Medicis? We have merchants in London, that make twenty, and even thirty thousand pounds a year profit, but you will find them in brick cottages, for our modern London houses are no better, compared with the palaces of Florence and Venice, erected in the age of their commerce; the paintings, in the possession of our merchants, a few daubed portraits; their statues, earthen-ware figures on chimney pieces; their libraries—their cabinets,—how contemptible the idea of a comparison! It is a remarkable fact, that with this prodigious commerce and manufacture, Florence was neither fo large nor fo populous as at prefent This is inexplicable, and demands inquiries from the historical traveller:—a very useful path to be trodden by a man of abilities, who should travel for the take of comparing the things he fees with those he reads of. Trade, in that age, must, from the fewness of hands, have been a fort of monopoly, yielding immense profits. From the modern state of Florence, without one new house that rivals, in any degree, those of the sourteenth or sisteeth centuries, it might be thought, that with their commerce, the Florentines loft every fort of income; yet there is no doubt, that the revenue from land is, at this moment, greater than it was in the most flourishing age of the republic. The revenue of Tuscany is now more equally fpent. The government of the Grand Dukes I take to have been far better than the republican, for it was not a republic equally formed from all parts of the territory, but a city governing the country, and confequently impoverishing the whole, to enrich itself, which is one of the worlt species of government to be found in the world. When Italy was decorated with fine buildings, the rich nobles must have spent their incomes in raising them: at present, those of Florence have other methods of applying their fortunes; not in palaces, not in the fine arts, not in dinners; -- the account I received was, that their incomes are, for the greatest part, confumed by keeping great crowds of domeflies; many of them married, with their families, as in Spain. The Marchefe Ricardi has forty, each of which hath a family of his own, some of them under-servants, but all maintained by him. His table is very magnificent, and ferved with all forts of delicacies, yet never any company at it, except the family, tutors, and chaplains. The house of Ranuzzi hath a greater fortune, and also a greater number of domestics in the fame stile. No dinners, as in England; no suppers, as in France; no parties; no expensive equipages; little comfort; but a great train of idle lounging pensioners, taken from useful labour, and kept from productive industry; one of the worst ways of fpending their fortunes, relatively to the public good, that could have been adopted. How inferior to the encouragement of the fine or the ufeful arts!

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The manner in which our little party has passed their time has been agreeable enough, and wonderfully cheap: we have been very well ferved by a traiteur, with plenty of good things, well dreffed, at 4 paols a head for dinner, and a flight repail at night; fugar, rum, and lemons for punch, which both French and Italians like very well, added a trifle more. These articles, and the apartment, with wood, which is dear, and the weather, as I noted, very cold, made my whole expence, exclusive of amusements, 3s. 6d. a day English, which surely is marvellously cheap; for we had generally eight or ten things for dinner, and fuch a defert as the feafon would allow, with good wine, the best I have drunk in Italy. The Abbate Amoretti, who, fortunately for me, arrived at Florence the same day as myself, was lodged with a friend, a canon, who being obliged to be absent in the country most of the time, the Abbate, to save the servants the trouble of providing for him only, joined our party, and lived with us for some days, adding to our common bank no flight capital in good fenfe, information, and agreeableneis. Madame de Bouille's eafy and unaffected character, and the good humour of the Baron, united with Mr. Stewart, and his young friend, to make a mixture of nations--of ideas—of pursuits—and of tempers, which contributed to render conversation liversified, and the topics more in contrast, better treated, and more interesting; but never one idea, or one fyllable, that cast even a momentary shade across that flow of ease and good humour, which gives to every society its best relish. There was not one in the party which any of us wished out of it; and we were too much pleased with one another to want any addition. Had I not been turning my face towards my family, and the old friends I left in England, I should have quitted our little society with more pain. Half a dozen people have rarely been brought together, by fuch mere accident, that have better turned the little nothings of life to account (if I may venture to use the expression) by their best cement—good humour.

The 2d. The day of departure must needs give some anxiety to those who cannot throw their small evils on servants. Renew my connection with that odious Italian race, the vetturini. I had agreed for a compagnon de voyage; but was alone, which I liked much better. To step at once from an agreeable lociety, into an Italian voiture, is a kind of malady which does not ag with my nerves. The best people appear but blanks at such a moment: the mind having gotten a particular impusse, one cannot so soon give it another. The inn at Machere, where I sound no fire, but in partnership with some Germans, did not and much to revive chearfulness, so I closed myself in that which Sancho witely says, covers a man all over like a cloak.——18

The 3d. Dine at Pietra Mala, and, while the dinner was preparing, I walked to the volcano, as it is called. It is a very fingular spectacle, on the slope of a mountain, without any hole or apparent crevice, or any thing that tends towards a crater; the fire burns among some stones, as if they were its fuel; the slame fills the space of a cube of about two feet, besides which there are ten or twelve smaller and inconsiderable slames. These I extinguished in the manner Mons. de la Lande mentions, by rubbing hard with a stick among the small slones; the slame catches again in a few moments, but in a manner that convinces me the whole is merely a vent to a current of inflammable air, which Signore Amoreti informed me has been lately afferted by some person who has tried experiments on it. The slame revives with small explosions, exactly like those of inflammable air fired from a small phial; and when I returned to the inn, the landlord had a bottle of it, which he burns at pleasure, to shew his guests.

The cause of this phoenomenon has been sought in almost every thing but the real fact. I am furprifed the fire is not applied to fome use. It would boil a confiderable copper conflantly, without the expense of a farthing. If I had is at Bradfield, I would burn brick or lin., and boil or bake potators for bullocks and hogs at the fame time. Why not build a nouse on the spot? and let the kitchen-chimney surround the base? there would be no danger in living in fuch a house, certainly as I mg as the flame continued to burn. It is true the idea of a mine of inflammable air, just under a house, would form times, perhaps, alarm one's female vifitors: they would be afraid of a magazine of viral air uniting with it, and at one explosion blowing up the economical edifice. On the whole, the idea is rather too volcanic for Bradfield: Paly has things better worth importing than burning mountains. The King of Poland's brother, the primate, flopping at Pictra Mala a day for illness (the 25th or 26th November), the weather was so severe that it froze his Cyprus wine; milk was as hard as stone, and burst all the veffels that contained it. On whatever account Englishmen may travel to Tufcany, let not a warm winter be among their inducements. - Sleep at that hideous miles.

The 4th. The passage of the Appenines has been a cold and comfortless journey to me, and would have been much worse, if I had not taken refuge in walking. The hills are almost covered with snow: and the road, in many descents a sheet of ice. At the St. Marco, at Bologna, they brought me, according to custom, the book to write my name for the commandant, and there I see Lady Erne and sua siglia, and Mr. Hervey, October 14. Had my stars been lucky enough to have given me more of the society of that cultivated family, during my stay in Italy, it would have smoothed some of my difficulties. I missed Lord Brittol at Nice, and again at Padua. He has travelled, and lived in Italy, till he knows it as well as Derry; and, unfortunately for the society of Sussolk, ten times better than lekworth. Call on Mr. Taylor, and find, to my great concern, two of his children very ill. Abbate Amoretti, who left Florence a few days ago, is here to now comfort, and we shall continue together till we come to Parma. This is indeed fortunate, for one can hardly wish for a better fellow traveller.

____20 miles.

The 5th. Vifit the Institute, which has acquired a greater reputation than it merits. Whoever has read any thing about modern Italy, knows what it contains. I never view muleums of natural history, and cabinets of machines for experimental philosophy, but with a species of disgust. I hate expence, and time thrown away for vanity and shew more than utility. A well arranged laboratory, clean, and every thing in order, in a holy-day drefs, is detestable; but I found a combination of many pleafures in the diforderly dirty laboratories of Melfrs. de Morveau and la Vofier. There is a face of business; there is evidently work going forwards; and if so, there is use. Why move here, and at Florence, through rooms well garnished with pneumatical instruments that are never used? Why are not experiments going forward? If the professors have not time or inclination for those experiments, which it is their duty to make, let others, who are willing, convert fuch macnines to use. Half these implements grow good for nothing from reft; and, before they are used, demand to be new arranged. You show me abundance of tools, but fay not a word of the difcoveries that have been made by them. A prince, who is at the expense of making fuch great collections of machines, should always order a series of experiments to be carrying on by their means. If I were Grand Duke of Tufcany, I should fay, "You, Mr. Fontana, have invented an eudiometer; I defire that you will carry on a feries of trials to afcertain every circumstance which act.

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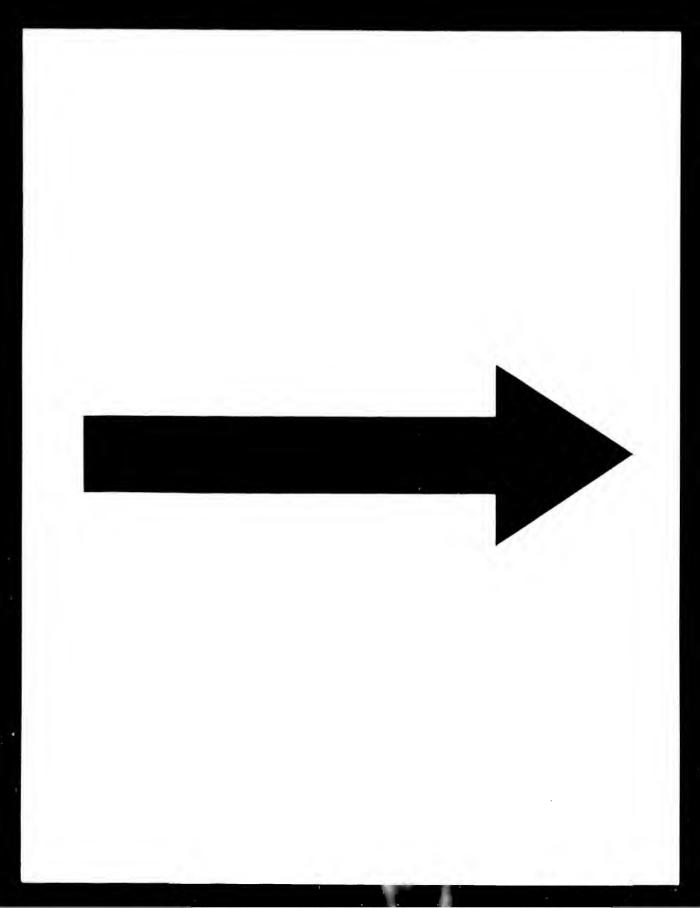
tance which

which changes the refult, in the qualities of airs, that can be affectained by the n'trous teft; and if you have other inquiries, which you think more important, employ fome person upon whom you can depend."—And to Mr. John Fabbroni, "You have made five trials on the weight of geoponic foils, taken hydroftatically; make five hundred more, and let the specimens be chosen in conjunction with the professor of agriculture. You have explained how to analyze foils - a alyze the fame specimens." When men have opened to themfelves careers which they do not purfue, it is ufually for want of the means of profecuting them; but in the mufeum of a prince; in fuch cabinets as at Florence or Bologna, there are no difficulties of this fort, - and they would be better employed than in their prefent state, painted and patched, like an opera girl, for the idle to stare at. What would a Watson a Milner, or a Priestley say, upon a proposal to have their laboratories brushed on and spruce? I believe they would kick out the operator who came on fuch an e ralike manner; I hate a library well gilt, exactly arranged, and for a book e; I am apt to think the owner better pleased with the reputation of his ou with reading them. Here is a chamber for machines applicable to mechanic country is full of carts, with wheels two feet high, with large axles; what expehave been made in this chamber to inform the people on a point of fiich confequence to the conduct of almost every art? I have, however, a greater quarrel than this with the Institute. There is an apartment of the art of war and fortification. Is there one of the machines of agriculture, and of fuch of its processes as can be represented in miniature? ---- No: nor here, nor any where elfe have I feen fuch an exhibition; yet in the King's library at Paris, the art of English gardening is reprefented in wax-work, and makes a play thing pretty enough for a child to cry for. The attention paid to war, and the neglect of agriculture in this Inflitute, gives me a poor opinion of it. Bologna may produce great men, but she will not be indebted for them to this establishment. View some churches and palaces, which I did not see when here before. In the church of St. Dominico, a flaughter of the Innocents, by Guido, which will command attention, how little inclined foever you may be to give it. The mother and the dead child, in the fore-ground, are truly pathetic, and the whole piece finely executed. The number of highly decorated churches at Bologna is furprifing. They count, I think, above an hundred; and all the towns, and many villages in Italy, offer the fame specarcle; the sums of money invested in this manner in the fifteenth and fixteenth centurics, and fome even in the feventeenth, are truly amazing; the palaces were built at the same time, and at this period all the rest of Europe was in a state of barbarism: national wealth must have been immense, to have spared fuch an enormous superfluity. This idea recurs every where in Italy, and wants explanation from modern historians. The Italian republics had all the trade of Europe; but what was Europe in that age? England and Holland have had it this age without any fuch effects; with us architecture takes quite a different turn; it is the diffusion of comfort in the houses of private people; not concentrated magnificence in public works. But there does not appear, from the fize and number of the towns in ataly, built in the fame ages, to have been any want of this; private houses were numerous and well erected. A difference in manners, introducing new and unheard-of luxuries, has probably been the cause of the change. In such a diary as this, one can only touch on a subject—but the historians should dwell on them, rather than on battles and fieges.

The 6th. I.eft Bologna, with Abbate Amoretti, in a vettura, but the day so fine and frosty, that we walked three-fourths of the way to Modena. Pass Ansolazen, the seat of the Marchese Abbetgatti, who, after having passed his grand climacteric, has just

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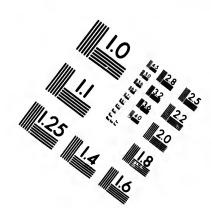
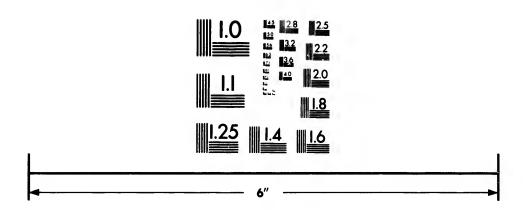
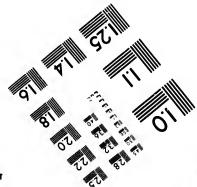


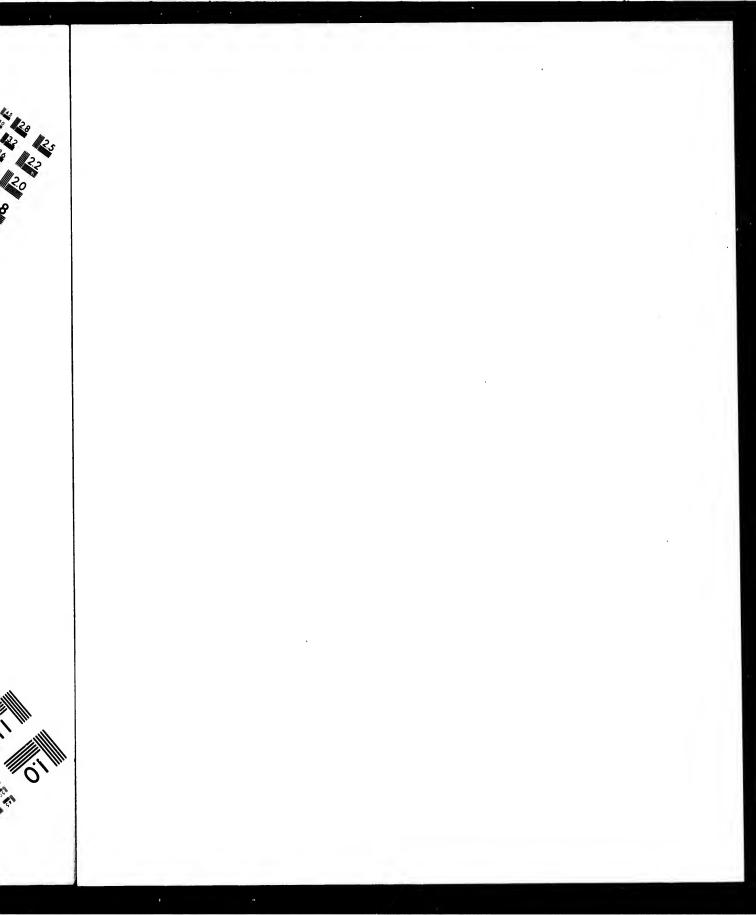
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married a ballarina, of seventeen. The country to Modena is the same as the state part of the Bolognese; it is all a dead level plain, inclosed by neatly wrought hedges against the road, with a view of distinguishing properties. I thought, en entering the Modenese dominions, across the river, that I observed rather a decline in neatness and good management. View the city; the streets are of a good breadth, and most of the houses with good fronts, with a clean painted or well washed face—the effect pleasing. In the evening to the theatre, which is of the oddest form I have seen. We had a hodge-podge of a comedy, in which the following passage excited such an immoderate laugh, that it is worth inserting, if only to shew the taste of the audience, and the reputation of the ballarine; "Era un cavallo sì bello," sì spelto, sì agile, di bel petto, gambe ben fatte, groppa gross, che se sosse lato una cavalla, converebbe dire che l'anima della prima ballerina del teatro trasmigrata in quella." Another piece of miserable wit was received with as much applause as the most sterling:—Arlech. "Chi e quel ré che ha la più gran corona del mendo?—Brighel. "Quello che ha la testa piu piccola."—124 miles.

The 7th. To the ducal palace, which is a magnificent building, and contains a confiderable collection of pictures, yet a melancholy remnant of what were once here. The library, celebrated for its contents, is splendid; we were shewn the curious MS. of which there is an account in De la Lande. The bible made for the D'Esté family is beautifully executed, begun in 1457, and finished in 1463, and cost 1872 zechins. In the afternoon, accompanied the Abbate Amoretti to Signore Belentani; and in the evening to Signore Venturi, professor of physicks in the university, with whom we spent a very agreeable and instructive evening. We debated on the propriety of applying some political principles to the present state of Italy; and I sound, that the professor had not only considered the subjects of political importance, but seemed pleased

to converse upon them.

The 8th. Early in the morning to Reggio. This line of country appears to be one of the best in Lombardy; there is a neatness in the houses, which are every where scattered thickly, that extends even to the homesteads and hedges, to a degree that one does not always find, even in the best parts of England; but the trees that support the vines being large, the whole has now, without leaves, the air of a forest. In summer it must be an absolute wood. The road is a noble one. Six miles from Modena, we passed the Secchia, or rather the vale ruined by that river, near an unfinished bridge, with a long and noble caufeway leading to it on each fide, which does honour to the Duke n I states of Modena. It being a fe/ta (the immaculate conception), we met the country people going to mass; the married women had all muss, which are here wedding presents. Another thing I observed, for the first time, were children standing ready in the road, or running out of the houses, to offer, as we were walking, asses to ride: they have them always faddled and bridled, and the fixed price is 1 fol per mile. This shews attention and industry, and is therefore commendable. A countryman, who had walked with us for fome diffance, replied to them, that we were not Signora d'afini. In the afternoon to Parma. The country the fame, but not with that air of neatness that is between Reggio and Modena; not so well inclosed, nor so well planted; and though very populous, not fo well built, nor the houses so clean and neat. Pals the Eula, a poor milerable brook, now three yards wide, but a bridge for it a quarter of a mile long, and a fine vale, all destroyed by its ravages; this is the boundary of the two duchies. _____30 miles.

The 9th. At the academy is the famous picture of the holy family and St. Jerome, by Correggio, a master more inimitable perhaps than Raphael himself. To my unlearned eyes, there is in this painting such a suffusion of grace, and such a blaze of beauty,

as strike me blind (to use another's expression) to all defects which learned eyes have

found in it. I have admired this piece often in Italy in good copies, by no ordinary

iodemasters, but none come near the original. The head of the Magdalen is reckoned the good chef d'œuvre of Correggio. The celebrated cupola of the Duomo is fo high, fo much oufes damaged, and my eyes so indifferent, that I leave it for those who have better. At St. n the Sepolcro, St. Joseph gathering palms, &c. by the fame great hand. There are works odge by him also in the church of St. John, but not equally beautiful, and a copy of his fahat it mous Notte. At the academy is a fine adoration, by Mazzola. The great theatre here of the is the largest in the world. In the afternoon to the citadel; but its governor, Count Rezzonico, to whom I had a letter, is absent from Parma. Then to the celebrated roppa ıa del reale typografia of Signore Bodoni, who shewed me many works of singular beauty. much The types, I think, exceed those of Didot at Paris, who often crowds the letters close, na del as if to fave paper. The Daphne and Chloe, and the Amynta, are beautifully executed; I bought the latter as a specimen of this celebrated press, which really does conhonour to Italy. Signore Bodoni had the title of the printer to the King of Spain, here. but never received any falary or even gratification, as I learned in Parma from another MS. quarter; where I was also informed, that the falary he has from the duke is only 150 amily zechins. His merit is great and distinguished, and his exertions are uncommon. He chins. has thirty thousand matrices of type. I was not a little pleased to find, that he has met in the with the best fort of patron in Mr. Edwards, the bookseller, at London, who has made m we a contract with him for an impression of two hundred and fifty of four Greek poets, of apfour Latin, and four Italian ones-Pindar, Sophocles, Homer, and Theocritus; Hoe prorace, Virgil, Lucretius, and Plautus; Dante, Petrarca, Ariosto, and Tasso. In fearchleafed ing bookfellers' shops for printed agriculture, I became possessed of a book which I confider as a real curiofity-" Diario di Colorno per l'anno 1789," preceded by a sermon on this text, Ut feductores et veraces: Corinth. cap. vi. ver. 8. The diary is a e one e fcatcatalogue of faints, with the chief circumstances of their lives, their merits, &c. This book, which is put together in the spirit of the tenth century, is (marvellously be it at one spoken!) the production of the Duke of Parma's pen. The fovereign, for whose edurt the cation a constellation of French talents was collected—with what effect let this producmmer tion witness. Instead of profanely turning friars out of their convents, this prince has ia, we ridge, peopled his palace with monks; and the holy office of inquifition is found at Parma, instead of an academy of agriculture. The duchess has her amusements, as well as her to the et the husband: doubtless they are more agreeable, and more in unison with the character wedand practice of this age. The memoirs of the court of Parma, both during the reigns of inding Don Philip and the prefent duke, whenever they are published, for written I should sup-, affes pose they must be, will make a romance as interesting as any that siction has produced. ol per If I lived under a government that had the power of fleecing me to support the extravauntrygances of a prince, in the name of common feelings, let it be to fill a palace with miftresses, rather than with monks. For half a million of French livres, the river Parma re not might be made navigable from the Po: it has been more than once mentioned; but the t with present duke has other and more holy employments for money; Don Philip's were not or to in and so directly aimed at the gates of Paradise. ge for

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The 10th. In the morning, walked with Signore Amoretti to Vicomero, feven miles north of Parma towards the Po, the feat of the Count de Schaffienatti. For half the way, we had a fine clear frosty sun-shine, which shewed us the constant fog that hangs over the Po; but a slight breeze from the north rising, it drove this fog over us, and changed the day at once. It rarely quits the Po, except in the heat of the day in fine weather in summer, so that when you are to the south of it, with a clear view of the

Appenines, you fee nothing of the Alps; and when to the north of it, with a fine view of the latter, you fee nothing of the Appenines. Commonly it does not fpread more than half a mile on each fide wider than the river, but varies by wind, as it did to-day. The country, for four miles, is mostly meadow, and much of it watered; but then becomes arable. Entered the house of a metayer, to see the method of living, but found nobody; the whole family, with fix or eight women and children, their neighbours, were in the stable, fitting on forms fronting each other in two lines, on a space paved and clean, in the middle of the room, between two rows of oxen and cows: it was most disagreeably hot on entering. They stay there till they go to bed, sometimes till midnight. This practice is univerfal in Lombardy. Dine with the Count de Schaffienatti, who lives entirely in the country with his wife. He shewed me his farm, and I examined his dairy, where cheefes are made nearly in the fame way, and with the fame implements as in the Lodesan; these cheeses may therefore, with as much propriety, be called Parmefan, as those that come from Lodi. My friend, the Abbate Amoretti, having other engagements in this country, I here took leave of him with regret.-14 miles.

The 11th. Having agreed with a veiturino to take me to Turin, and he not being able to procure another passenger, I went alone to Firenzola. It is fine sun-shine weather, decisively warmer than ever felt in England at this season: a sharp frost, without assecting the extremities as with us, where cold singers and toes may be classed among the nuisances of our climate. I walked most of the way. The face of the country is the same as before, but vines decrease after Borgo St. Donnino. An inequality in the surface of the country begins also to appear, and every where a scattering of oak tim-

ber, which is a new feature. _____20 miles.

The 12th. Early in the morning to Piacenza, that I might have time to view that city, which, however contains little worthy of attention. The country changed a good deal to-day. It is like the flat rich parts of Essex and Suffolk. Houses are thinner, and the general face inferior. The inequalities which began yesterday increase.—The two equestrian statues of Alexander and Rannutio Farnese, are finely expressive of life; the motion of the horses, particularly that of Alexander's, is admirable; and the whole performance spirited and alive. They are by John of Bologna, or Moca his eleve. Sleep

at Castel St. Giovanne. -- 26 miles.

The 13th. Cross a brook two miles distant, and enter the King Jardinia's territory, where the sculls of two robbers, who, about two months ago, robbed the courier of Rome, are immediately feen: this is an agreeable object, that strikes us at our entrance into any part of the Piedmontese dominions; the inhabitants having in this respect an ill reputation throughout all Italy, much to the disgrace of the government. The country, to Tortona, is all hill and dale; and being cultivated, with an intermixture of vines, and much inclosed, with many buildings on the hills, the features are so agreeable, that it may be ranked among the most pleasing I have seen in Italy. Within three miles of Voghera, all is white with fnow, the first I have feen in the plain; but as we approach the mountains, shall quit it no more till the Alps are crossed. Dine at Voghera, in a room in which the chimney does not smoke; which ought to be noted, as it is the only one free from it fince I left Bologna. At this freezing feafon, to have a door constantly open to aid the chimney in its office; one side burnt by the blaze of a faggot, and the other frozen by a door that opens into the yard, are among the agrémens of a winter journey in lat. 45. After Voghera the hills tend more to the fouth. The fun fetting here is a fingular object to an eye used only to plains. The Alps not being vifible, it feems to fet long before it reaches the plane of the horizon. Pass the citadel of view more

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adel of ortona Fortona on a hill, one of the strongest places in the possession of the King of Sardinia

The 14th. Ford the Scrivia; it is as ravaging a stream as the Trebbia, subject to dreadful floods, after even two days rain; especially if a Scirocco wind melts the snow on the Appenines: fuch accidents have often kept travellers four, five, and even fix days at miferable inns. I felt myfelf lighter for the having passed it; for there were not fewer than fix or feven rivers, which could have thus stopped me. This is the last. The weather continues tharp and frofty, very cold, the ice five inches thick, and the fnow deep. Dine at Alexandria, joined there by a gentleman who has taken the other feat in the vettura to Turin. Just on the outside of that town, there is an uncommon covered bridge. The citadel feems furrounded with many works. Sleep at Fellisham, a vile dirty hole, with paper windows, common in this country, and not uncommon even in Alexandria itself.——18 miles.

The 15th. The country, to Asti and Villanova, all hilly, and some of it pleasing.— Coming out of Asti, where we dined, the country for some miles is beautiful. My vetturino has been travelling in company with another, without my knowing any thing of the master till to day; but we joined at dinner, and I found him a very sensible agreeable Frenchman, apparently a man of fashion, who knows every body. His conversation, both at dinner, and in the evening, was no inconfiderable relief to the dullness of fuch a frozen journey. His name Nicolay.——22 miles.

The 16th. To Turin, by Moncallier; much of the country dull and difagreeable; hills without landscape; and vales without the fertility of Lombardy. My companion, who is in office as an architect to the King, as well as I could gather from the hints he dropped, lived nine years in Sardinia. The account he gives of that island, contains fome circumstances worth noting. What keeps it in its present unimproved situation, is chiefly the extent of estates, the absence of some very great proprietors, and the inattention of all. The Duke of Assinara has 300,000 livres a-year, or 15,000l. sterling. The Duke of St. Piera 160,000. The Marchese di Pascha, very great. Many of them live in Spain. The Conte de Girah, a grandee of Spain, has an estate of two days journey, reaching from Poula to Oliustre. The peafants are a miserable set, that live in poor cabins, without other chimnies than a hole in the roof to let the fmoke out. The intemperia is frequent and pernicious every where in fummer; yet there are very great mountains. Cattle have nothing to eat in winter, but brouzing on shrubs, &c. There are no wolves. The oil fo bad as not to be eatable. Some wine almost as good as Malaga, and not unlike it. No filk. The great export is wheat, which has been known to yield forty for one; but seven or eight for one is the common produce. Bread, 1/2 the pound; beef, 2/.; mutton, 21/. There are millions of wild ducks; fuch numbers, that perfons fond of flooting have gone thither merely for the incredible sport they afford.

The 17th. Waited on our ambaffador, the Honourable Mr. Trevor, who was not at home; but I had an invitation to dinner foon after, which I accepted readily, and paffed a very pleafant day. Mr. Trevor's fituation is not compatible with his being a practical farmer; but he is a man of deep fense, and much observation; all such are political farmers, from conviction of the importance of the subject. He converses well on it; Mr. Trevor mentioned fome Piedmontese nobles, to whom he would have introduced me, if my flay had been long enough; but he would not admit an excuse respecting the Portuguese ambassador, of whom he speaks as a person remarkably well informed; and who loves agriculture greatly. In the evening, accompanied Mrs. Trevor to the great

WOL. IV. operaopera-house; a rehearfal of l'Olympiade, new-set by a young composer, Frederici:

Marchele fung.

The 18th. I am not a little obliged to Mr. Trevor for introducing me to one of the best informed men I have any where met with, Don Roderigo de Souza Continho, the Portuguese minister at the court of Turin, with whom I dined to-day; he had invited to meet me the Medico Bouvicino, l'Abbate Vasco, author of several political pieces of merit, and Signore Bellardi, a botanist of considerable reputation, whom I had known before at Turin. What the young and beautiful Madame de Souza thinks of an Englift farmer, may be eafily gueffed; for not one word was spoken in an incessant converfation, but on agriculture, or those political principles which tend to cherish or restrain it. To a woman of fashion in England this would not appear extraordinary, for she now and then meets with it; but to a young Piedmontele, unaccustomed to such conversations, it must have appeared odd, uninviting, and unpolite. M. de Souza sent to the late Prince of Brazil, one of the best and most judicious offerings that any ambassador ever made to his fovereign; Portugal he reprefents as a country capable of valt improvements by irrigation, but almost an entire stranger to the practice; therefore, with a view of introducing a knowledge of its importance, he ordered a model, in different woods, to be constructed of a river; the method of taking water from it; and the conducting of it by various channels over the adjoining or distant lands, with all the machinery used for regulating and measuring the water. It was made on such a scale, that the model was an exhibition of the art, fo far as it could be represented in the distribution of water. It was an admirable thought, and might have proved of the greatest importance to his country. This machine is at Lifbon; and, I take it for granted, is there confidered (if Lifbon be like other courts) as a toy for children to look at, instead of a school for the instruction of a people. I was pleased to find the Portuguese minister among the most intimate acquaintances of Mr. Trevor; the friendship of men of parts and knowledge, does them reciprocal honour: I am forry to quit Turin, just as I am known to two men who would be fufficient to render any town agreeable; nor should I be forry if Don Roderigo was a farmer near me in Suffolk, instead of being an ambassador at Turin, for which he is doubtless much obliged to me.

The 19th. The King has fent a message to the Academy of Sciences, recommending them to pay attention to whatever concerns dying. The minister is said to be a man of abilities, from which expression, in this age, we are to understand, a person who is, or feems to be active for the encouragement of manufactures and commerce, but never one who has just ideas on the importance of agriculture in preference to all other objects. To multiply mulberries in Piedmont, and cattle and fleep in Savoy-to do fomething with the fertile waltes and peltiferous marshes of Sardinia, would give a minister reputation among the few real politicians only in any country: but dying, and buttons*, and feiffars, and commerce, are calculated to pleafe the many, and confequently to give reputation to those who build on fuch foundations. Dine with Mr. Trevor, and continue to find in him an equal ability and inclination to answer such of my enquiries as I took the liberty of troubling him with. In the evening he introduced me to Count Granari, the fecretary of state for home affairs, that is the prime minister, under an idea that he had an intention of introducing Spanish sheep: he was ambassador in Spain, and seems, from his conversation, well informed concerning the Spanish slocks. This minister was called home to fill his prefent important fituation, to the fatisfaction of the people, who have wery generally a good opinion of his ability and prudence. To-morrow I leave Turin: I have agreed with a vetturino for carrying me to Lyons across Mont Cenis, in a chariot, and allowed him to take another person: this person he has found; and it is Mr. Grundy, a confiderable merchant of Birmingham, who is on his return from Naples.

The 20th. Leave Turin; dine at St. Anthony, like hogs; and fmoked all the dinner

like hams. Sleep at Suza, a better inn.—32 miles.

The 21st. The shortest day in the year, for one of the expeditions that demand the longest, the passage of Mont Cenis, about which so much has been written. To those who, from reading, are full of expectation of fomething very fublime, it is almost as great a delution as is to be met with in the regions of romance: if travellers are to be believed, the descent, rammassant on the snow, is made with the velocity of a slash of lightning; I was not fortunate enough to meet with any thing so wonderful. At the grande croix we feated ourfelves in machines of four flicks, dignified with the name of traineau: a mule draws it, and a conductor, who walks between the machine and the animal, ferves chiefly to kick the fnow into the face of the rider. When arrived at the precipice, which leads down to Lanebourg, the mule is difmissed, and the rammassing begins. The weight of two persons, the guide seating himself in the front, and directing it with his heels in the fnow, is sufficient to give it motion. For most of the way he is content to follow very humbly the path of the mules, but now and then croffes to escape a double, and in fuch fpots the motion is rapid enough, for a few feconds, to be agreeable; they might very easily shorten the line one half, and by that method gratify the English with the velocity they admire fo much. As it is at prefent, a good English horse would trot as fast as we rammassed. The exaggerations we have read of this business have arisen, perhaps, from travellers passing in summer, and relying on the descriptions of the muleteers. A journey on fnow is commonly productive of laughable incidents; the road of the traineau is not wider than the machine, and we were always meeting mules, &c. It was fometimes, and with reafon, a question who should turn out; for the snow being ten feet deep, the mules had fagacity to confider a moment before they buried themfelves. A young Savoyard female, riding her mule, experienced a complete reverfal; for, attempting to pass my traineau, her beast was a little restive, and tumbling, dismounted his rider: the girl's head pitched in the fnow, and funk deep enough to fix her beauties in the position of a forked post; and the wicked muleteers, instead of assisting her, laughed too heartily to move: if it had been one of the ballerine, the attitude would not have been diffreshing to her. These laughable adventures, with the gilding of a bright fun, made the day pass pleasantly; and we were in good humour enough to swallow with chearfulnefs, a dinner at Lanebourg, that, had we been in England, we should have configned very readily to the dog-kennel.——20 miles.

The 22d. The whole day we were among the high Alps. The villages are apparently poor, the houses ill built, and the people with few comforts about them, except plenty of pine wood, the forests of which harbour wolves and bears. Dine at Modane, and

fleep at St. Michel. 25 miles.

The 23d. Pass St. Jean Maurienne, where there is a bishop, and near that place we faw what is much better than a bishop, the prettiest, and indeed the only pretty woman we faw in Savoy; on enquiry, found it was Madame de la Coste, wife of a farmer of tobacco; I should have been better pleased if she had belonged to the plough.—The mountains now relax their terrific features: they recede enough, to offer to the willing industry of the poor inhabitants something like a valley; but the jealous torrent seizes it with the hand of despotism, and like his brother tyrants, reigns but to destroy. On

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fome flopes vines: mulberries begin to appear; villages increase; but still continue rather shapeless heaps of inhabited stones than ranges of houses; yet in these homely cots, beneath the snow-clad hills, where natural light comes with tardy beams, and art seems more fedulous to exclude than admit it, peace and content, the companions of honesty, may reside; and certainly would, were the penury of nature the only evil selt; but the hand of despotifm may be more heavy. In several places the view is picturesque and pleasing: inclosures seem hung against the mountain sides, as a picture is suspended to the wall of a room. The people are in general exceedingly ugly and dwarfish. Dine

at La Chambre; fad fare. Sleep at Aguebelle. _____30 miles.

The 2.1th. The country to-day, that is to Chambery, improves greatly; the mountains, though high, recede; the vallies are wide, and the flopes more cultivated; and towards the capital of Savoy, are many country houses which enliven the scene. Above Mal Taverne is Chateauneuf, the house of the countess of that name. I was forry to fee, at the village, a carcan, or feigneural flandard, erected, to which a chain and heavy iron collar are fastened, as a mark of the lordly arrogance of the nobility, and the slavery of the people. I asked why it was not burned, with the horror it merited? The question did not excite the surprize I expected, and which it would have done before the French revolution. This led to a conversation, by which I learned, that in the baut Savoy, there are no feigneurs, and the people are generally at their cafe; poffeffing little properties, and the land in spite of nature, almost as valuable as in the lower country, where the people are poor, and ill at their eafe. I demanded why? Because there are feigneurs every where. What a vice is it, and even a curse, that the gentry, instead of being the cherishers and benefactors of their poor neighbours, should thus, by the abomination of feudal rights, prove mere tyrants? Will nothing but revolutions, which cause their chateaux to be burnt, induce them to give to reason and humanity, what will be extorted by violence and commotion? We had arranged our journey, to arrive early at Chambery, for an opportunity to fee what is most interesting in a place that has but little. It is the winter refidence of almost all the nobility of Savoy. The best estate in the duchy is not more than 60,000 Piedmontese livres a year (3000l.), but for 20,000 livres, they live en grand seigneur here. If a country gentleman have 150 louis d'or a year, he will be fure to ipend three months in a town; the consequence of which must be, nine uncomfortable ones in the country, in order to make a beggarly figure the other three in town. These idle people are this Christmas disappointed, by the court having refused admittance to the usual company of French comedians; the government fears importing among the rough mountaineers the prefent spirit of French liberty. Is this weakness or policy? But Chambery had objects to me more interesting. I was eager to view Charmettes, the road, the house of Madame Warens, the vineyard, the garden, every thing, in a word, that had been described by the inimitable pencil of Rousseau. There was fomething to deliciously amiable in her character, in spite of her frailtiesher constant gaiety and good humour-her tendernels and humanity-her farming speculations - but, above all other circumstances, the love of Rousseau, have written her name amongst the few whose memoirs are connected with us, by ties more easily felt than described. The house is fituated about a mile from Chambery, fronting the rocky road which leads to that city, and the wood of chefnuts in the valley. It is finall, and much of the fame fize as we should suppose, in England, would be found on a farm of one hundred acres, without the leaft luxury or pretention; and the garden, for fhrubs and flowers, is confined, as well as unaffuming. The fcenery is pleafing, being fo near a city, and yet, as he observes, quite sequestered. It could not but interest me, and I

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viewed it with a degree of emotion; even in the leafless melancholy of December it pleased. I wandered about some hills, which were affuredly the walks he has so agreeably described. I returned to Chambery, with my heart full of Madame de Warens. We had with us a young physician, a Monsieur Bernard, of Modanne en Maurienne, an agreeable man, connected with people at Chambery; I was forry to find, that he knew nothing more of the matter, than that Madame de Warens was certainly dead. With some trouble I procured the following certificate:

Extract from the Mortuary Register of the Parish Church of St. Peter de Lemens.

"The 30th of July was buried, in the burying ground of Lemens, Dame Louisa Frances Fleonor de la Tour, widow of the Seignor Baron de Warens, native of Vevay, in the canton of Berng, in Switzerland, who died yesterday, at ten in the evening, like a good Christian, and fortified with her last facraments, aged about fixty-three years. She abjured the Protestant religion about thirty-fix years past; since which time she lived in our religion. She finished her days in the suburb of Nesin, where she had lived for about eight years, in the house of M. Crepine. She lived heretofore at the Rectus, about four years in the house of the Marquis d'Alinge. She passed the rest of her life, since her abjuration, in this city. (Signed) Gaime, rector of Lemens."

"I, the underwritten, present rector of the said Lemens, certify, that I have extracted this from the mortuary register of the parish church of the said place, without any addition or diminution whatsever; and, having collated it, have found it conformable to the original. In witness of all which, I have signed the present at Chambery, the 24th of December, 1789.

(Signed) A. SACHOD, rector of Lemens.

The 25th. Left Chambery much distaissied, for want of knowing more of it. Rousseau gives a good character* of the people, and I wished to know them better. It was the worst day I have known, for months past, a cold thaw, of snow and rain; and yet in this dreary feason, when nature so rarely has a smile on her countenance, the environs were charming. All hill and dale, tossed about with so much wildness, that the scatures are bold enough for the irregularity of a forest scene; and yet withal, softened and melted down by culture and habitation, to be eminently beautiful. The country inclosed to the first town in France, Pont Beauvoisin, where we dined and slept. The passage of Echelles, cut in the rock by the sovereign of the country, is a noble and stupendous work. Arrive at Pont Beauvoisin, once more entering this noble kingdom, and meeting with the cockades of liberty, and those arms in the hands of the people, which, it is to be wished, may be used only for their own and Europe's peace.—24 miles.

The 26. Dine at Tour du Pin, and fleep at Verpiliere. This is the most advantageous entrance into France, in respect of beauty of country. From Spain, England, Flanders, Germany, or Italy by way of Antibes, all are inserior to this. It is really beautiful, and well planted, has many inclosures and mulberries, with some vines. There is hardly a bad feature, except the houses; which, instead of being well built, and white as in Italy, are ugly thatched mud cabins, without chimnies, the smoke issuing at a hole in the roof, or at the windows. Glass feems unknown; and there is an air of poverty and misery about them quite dissonant to the general aspect of the country.

^{*} S'il est une petite ville au monde où l'on goûte la douceur de la vie dans un commerce agréable & sûr, c'est Chambery.

Pass Bourgoyn, a large town. Reach Verpiliere. This day's journey is a fine variation of hill and dale, well planted with chateaux, and farms and cottages spread about it. A mild lovely day of sun-shine threw no slight gilding over the whole. For ten or twelve days past, they have had, on this side of the Alps, sine open warm weather, with sun-shine; but on the Alps themselves, and in the vale of Lombardy, on the other side, we were frozen and buried in snow. At Pont Beauvoisin, and Bourgoyn, our passports were demanded by the milice bourgeoise, but no where else: they assure us, that the country is perfectly quiet every where, and have no guards mounted in the villages—nor any suspicions of sugitives, as in the summer. Not far from Verpiliere, pass the burnt chateau of M. de Veau, in a fine situation, with a noble wood behind it. Mr. Grundy was here in August, and it had then but lately been laid in assure among many who were seized by the milice bourgeoise for this atrocious act.——27 miles.

The 27th. The country changes at once; from one of the finest in France, it becomes almost slat and sombre. Arrive at Lyons, and there, for the last time, see the Alps; on the quay there is a very sine view of Mont Blanc, which I had not seen before; leaving Italy, and Savoy, and the Alps, probably never to return, has something of a melancholy sensation. For all those circumstances which render that classical country illustrious—the seat of great men—the theatre of the most distinguished actions—the exclusive field in which the elegant and agreeable arts have loved to range—what country can be compared with Italy? to please the eye, to charm the ear, to gratify the enquiries of a laudable curiosity, whither would you travel? In every bosom whatever, Italy is the second country in the world—of all others, the surest proof that it is the first. To the theatre; a musical thing, which called all Italy by contrast to my ears! What stuff is French music! the distortions of embodied dissonance. The theatre is not equal to that of Nantes; and very much inferior to that of Bour-

deaux.---18 miles.

The 28th. I had letters to Monf. Goudard, a confiderable filk merchant, and, waiting on him yesterday, he appointed me to breakfast with him this morning. I tried hard to procure some information relative to the manufactures of Lyons; but in vain: every thing was felon and fuivant. To Monf. l'Abbé Rozier, author of the voluminous dictionary of agriculture, in quarto. I vifited him as a man very much extolled, and not with an idea of receiving information in the plain practical line, which is the object of my enquiries, from the compiler of a dictionary. When Monf. Rozier lived at Beziers, he occupied a confiderable farm; but, on becoming the inhabitant of a city, he placed this motto over his door—Laudato ingentia rura, exiguum colito, which is but a bad apology for no farm at all. I made one or two efforts towards a little practical converfation; but he flew off from that centre in fuch eccentric radii of science, that the vanity of the attempt was obvious in a moment. A physician prefent, remarked to me, that if I wanted to know common practices and products, I should apply to common farmers, indicating by his air and manner, that such things were b neath the dignity of science. Monf. l'Abbé Rozier is, however, a man of confice able knowledge, though no farmer; in those pursuits, which he has cultivated with inclination, he is justly celebrated—and he merits every culogium, for having fet on foot the Journal de Phylique, which, take it for all and all, is by far the beit journal that is to be found in Europe. His house is beautifully fituated, commanding a noble prospect; his library is furnished with good books; and every appearance about him points out an early fortune. Waited then on Monf. de Froslard, a protestant minister.

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minister, who, with great readiness and liberality, gave me much valuable information; and, for my further instruction on points with which he was not equally acquainted, introduced me to Monf. Roland la Platerie, inspector of the Lyons fabrics. This gentleman had notes upon many fubjects, which afforded an interesting conversation; and, as he communicated freely, I had the pleafure to find, that I should not quit Lyons without a good portion of the knowledge I fought. This gentleman, fomewhat advanced in life, has a young and beautiful wife—the lady to whom he addreffed his letters, written in Italy, and which have been published in five or fix volumes. Monf. Froffard defiring Monf. de la Platerie to dine with him, to meet me, we had a great deal of conversation on agriculture, manufactures, and commerce; and differed but little in our opinions, except on the treaty of commerce between England and France, which that gentleman condemned, as I thought, unjuffly; and we debated the point. He warmly contended, that filk ought to have been included as a benefit to France; I urged, that the offer was made to the French ministry, and refused; and I ventured to fay, that had it been accepted, the advantage would have been on the fide of England, instead of France, supposing, according to the vulgar ideas, that the benefit and the balance of trade are the fame things. I begged him to give me a reason for believing that France would buy the filk of Piedmont and of China, and work it up to underfell England; while England buys the French cotton, and works it into fabrics that underfell those of France, even under an accumulation of charges and duties? We difcuffed thefe, and fimilar fubjects, with that fort of attention and candour that render them interesting to perfors who love a liberal conversation upon important points.— Among the objects at Lyons, that are worthy of a stranger's curiosity, is the point of junction of the two great rivers. Soanne and the Rhone; Lyons would doubtless be much better fituated, if it were really at the junction; but there is an unoccupied space fufficient to contain a city half as large as Lyons itself. This space is a modern embankment, that cost fix millions, and ruined the undertakers. I prefer even Nantes to Lyons. When a city is built at the junction of two great rivers, the imagination is apt to suppose, that those rivers form a part of the magnificence of the scenery. Without broad, clean, and well built quays, what are rivers to a city but a facility to carry coals or tar-barrels? What, in point of beauty, has London to do with the Thames, except at the terrace of the Adelphi, and the new buildings of Somerfet-place, any more than with Fleet-ditch, buried as it is, a common shore? I know nothing in which our expectations are fo horribly disappointed as in cities, so very few are built with any general idea of beauty or decoration!

The 29th. Early in the morning, with Monf. Frosfard, to view a large farm near Lyons. Monf. Frosfard is a steady advocate for the new constitution establishing in France. At the same time, all those I have conversed with in the city, represent the state of the manufacture as melancholy to the last degree. Twenty thousand people are fed by charity, and consequently very ill fed; and the mass of distress, in all kinds, among the lower classes, is greater than ever was known—or any thing of which they had an idea. The chief cause of the evil felt here, is the stagnation of trade, occasioned by the emigrations of the rich from the kingdom, and the general want of considence in merchants and manufacturers; whence, of course, bankruptcies are common. At a moment when they are little able to bear additional burthens, they raise by voluntary contributions, for the poor, immense sums; so that including the revenues of the hospitals, and other charitable foundations, there are not paid, at present, for the use of the poor, less than 40,000 louis d'or a year. My fellow traveller, Mr. Grundy, being desirous to get soon to Paris, persuaded me to travel with him in a post-chaise,

a mode of travelling which I detest, but the season urged me to it; and a still stronger motive, was the having of more time to pass in that city, for the sake of observing the extraordinary state of things-of a King, Queen, and Dauphine of France, actual prisoners; I therefore accepted his proposal, and we set off after dinner to-day. In about ten miles come to the mountains. The country dreary; no inclosures, no mulberries, no vines, much waste, and nothing that indicates the vicinity of such a city. At Arnas, fleep at a comfortable inn -17 miles.

The 30th. Continue early in the morning to Tarar; the mountain of which name is more formidable in reputation than in reality. To St. Syphorien the fame features. The buildings increase, both in number and goodness, on approaching the Seine, which we croffed at Roane; it is here a good river, and is navigable many miles higher, and confequently at a valt distance from the fea. There are many flat bottomed barges on

it, of a confiderable fize.—50 miles.

The 31ft. Another clear, fine, fun-fhine day; rarely do we fee any thing like it at this feafon in England. After Droiturier, the woods of the Bourbonnois commence, At St. Gerund le Puy the country improves, enlivened by white houses and chateaux, and all continues fine to Moulins. Sought here my old friend, Monf. L'Abbé Barut, and had another interview with Monf. le Marquis Degouttes, concerning the fale of his chateau and estate of Riaux; I defired still to have the refusal of it, which he promised me, and will, I have no doubt, keep his word. Never have I been to tempted on any occasion, as with the wish of possessing this agreeable situation, in one of the finest parts of France, and in the finest climate of Europe. God grant, that, should be be pleased to protract my life, I may not, in a fad old age, repent at not clofing of once with an offer to which prudence calls, and prejudice only forbids! Heaven fend me eafe and tranquillity, for the close of tife, be it patled either in Suffolk, or the Bourbonnois!-38 miles.

January 1, 1790. Nevers makes a fine appearance, rifing proudly from the Loire; but, on the first entrance, it is like a thousand other places. Towns, thus feen, refemble a group of women, huddled close together: you see their nodding plumes and sparkling gems, till you fancy that ornament is the herald of beauty; but, on a nearer inspection, the faces are too often but common clay. From the hill that descends to Pouges, is an extensive view to the north; and after Pouilly a fine scenery, with the

Loire doubling through it.——75 miles.

The 2d. At Briare, the canal is an object that announces the happy effects of industry. There we quit the Loire. The country all the way diversified; much of it dry, and very pleafant, with rivers, hills, and woods, but almost every where a poor foil. Pals many chateaux, some of which are very good. Sleep at Nemours, where we meet with an inn-keeper, who exceeded, in knavery, all we had met with, either in France or Italy: for fupper, we had a foupe maigre, a partridge and a chicken roafted, a plate of celery, a finall cauliflower, two bottles of poor vin du Pays, and a deffert of two bifcuits and four apples: here is the bill: -Potage 1 liv. 10/. -Perdrix, 2 liv. 10/. Poulet, 2 liv.—Celeri, 1 liv. 4f.—Chousleur, 2 liv.—Pain et dessert, 2 liv.—Feu & apartment, 6 liv. - Total, 19 liv. 8f. Against so impudent an extortion we remonstrated severely, but in vain. We then infifted on his figuing the bill, which after many evafions, he did, a Petoile; Foulliare. But having been carried to the inn, not as the flar, but the écu de France, we suspected some deceit; and going out to examine the premises, we found the fign to be really the écu, and learned, on enquiry, that his own name was Roux, instead of Foulliare: he was not prepared for this detection, or for the execration we poured on fuch an infamous conduct: but he ran away in an inftant, and hid

himself till we were gone. In justice to the world, however, such a sellow ought to be marked out.——60 miles.

The 3d.—Through the forest of Fontainbleau, to Melun and Paris. The 60 postes from Lyons to Paris, making three hundred English miles, cost us, including 3 louis for the hire of the post-chaise (an old French cabriolet of two wheels) and the charges at the inns, &c. 15l. English; that is to say, 1s. per English mile, or 6d. per head. At Paris, I went to my old quarter, the hotel de la Rochesoucauld; for at Lyons I had received a letter from the duke de Liancourt, who desired me to make his house my home, just as in the time of his mother, my much lamented friend, the duchess d'Estissac, who died while I was in Italy. I found my friend Lazowski well, and we were à garge deployée, to converte on the amazing scenes that have taken place in France since I lest Paris.——

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The 4th. After breakfast, walk in the gardens of the Thuilleries, where there is the most extraordinary sight that either French or English eyes could ever behold at Paris. The King, walking with fix grenadiers of the milice bourgeoife, with an officer or two of his household, and a page. The doors of the gardens are kept shut in respect to him, in order to exclude every body but deputies, or those who have admission-tickets. When he entered the palace, the doors of the gardens were thrown open for all without distinction, though the Queen was still walking with a lady of her court. She also was attended to closely by the gardes bourgeoifes, that the could not speak but in a low voice, without being heard by them. A mob followed her, talking very loud, and paying no other apparent respect than that of taking off their hats wherever she passed, which was indeed more than I expected. Her Majesty does not appear to be in health; she feems to be much affected, and shews it in her face; but the King is as plump as ease can render him. By his orders, there is a little garden railed off, for the Dauphin to amuse himself in, and a small room is built in it to retire to in case of rain; here he was at work with his little hoe and rake, but not without a guard of two grenadiers. He is a very pretty good-natured looking boy, of five or fix years old, with an agreeable countenance; wherever he goes, all hats are taken off to him, which I was glad to observe. All the family being kept thus close prisoners (for such they are in effect) afford, at sirst view a shocking spectacle; and is really so, if the act were not effectually necessary to effect the revolution; this I conceive to be impossible; but if it were necessary, no one can blame the people for taking every measure possible to secure that liberty they had feized in the violence of a revolution. At fuch a moment, nothing is to be condemned but what endangers the national freedom. I must, however, freely own, that I have my doubts whether this treatment of the royal family can be justly esteemed any security to liberty; or, on the contrary, whether it were not a very dangerous step, that expofes to hazard whatever had been gained. I have fpoken with feveral perfons to day, and have stated objections to the present system, stronger even than they appear to me, in order to learn their fentiments; and it is evident, they are at the prefent moment under an apprehension of an attempt towards a counter-revolution. The danger of it very much, if not absolutely, results from the violence which has been used towards the royal family. The National Affembly was, before that period, answerable only for the permament conflitutional laws passed for the future: fince that moment, it is equally answerable for the whole conduct of the government of the flate, executive as well as legiflative. This critical fituation has made a conflant fpirit of exertion necessary amongst the Paris militia. The great object of M. La Fayette, and the other military leaders, is to improve their discipline, and to bring them into such a form as to allow a rational dependence on them, in case of their being wanted in the field; but such is the spirit of freedom, that, even in the military, there is so little subordination, that a man is an officer to day, and in the ranks to-morrow; a mode of proceeding, that makes it the more difficult to bring them to the point their leaders see necessary. Eight thousand men in Paris may be called the standing army, paid every day 15/2 a man; in which number is included the corps of the French guards from Versailles, that deserted to the people; they have also eight hundred horse, at an expence each of 1500 livres (621, 158, 6d.) a-

year, and the officers have double the pay of those in the army.

The 5th. Yesterday's address of the National Assembly to the King has done them credit with every body. I have heard it mentioned by people of very different opinions, but all concur in commending it. It was upon the question of naming the annual sum which should be granted for the civil list. They determined to fend a deputation to His Majesty, requesting him to name the sum himself, and praying him to consult less his spirit of economy, than a sense of that dignity which ought to environ the throne with a becoming splendor. Dine with the Duke de Liancourt, at his apartments in the Thuilleries, which, on the removal from Versailles, were assigned to him as grand master of the wardrobe; he gives a great dinner, twice a-week, to the deputies, at which from twenty to forty are usually present. Half an hour after three was the hour appointed, but we waited, with some of the deputies that had left the Assembly, till seven, before the duke and the rest of the company came.

There is in the assembly at present a writer of character, the author of a very able book, which led me to expect something much above mediocrity in him; but he is made of so many pretty littlenesses, that I stared at him with amazement. His voice is that of a feminine whilper, as if his nerves would not permit such a boisterous exertion as that of speaking loud enough to be heard; when he breathes out his ideas, he does it with eyes half closed; waves his head in circles, as if his sentiments were to be received as oracles; and has so much relaxation and pretension to case and delicacy of manner, with no personal appearance to second these prettinesses, that I wondered by what artificial means such a mass of heterogeneous parts became compounded. How strange that we should read an author's book with great pleasure; that we should say, this man has no stuff in him; all is of consequence; here is a character uncontaminated with that rubbish which we see in so many other men—and after this, to meet the garb

of fo much littleness!

The 6th, 7th, and 8th. The Duke of Liancourt having an intention of taking a farm in his own hands, to be conducted on improved principles after the English manner, he defired me to accompany him and my friend Lazowski, to Liancourt, to give my opinion of the lands, and of the best means towards executing the project, which I very readily complied with. I was here witness to a scene which made me smile; at no great distance from the chateau of Liancourt, is a piece of waste land, close to the road, and belonging to the duke. I faw fome men very bufy at work upon it, hedging it in, in fmall divifions; levelling, and digging, and beflowing much labour for fo poor a fpot. I asked the steward if he thought that land worth such an expence? He replied, that the poor people in the town, upon the revolution taking place, declared that the poor were the nation; that the waste belonged to the nation; and, proceeding from theory to practice, took possession, without any further authority, and began to cultivate; the duke not viewing their industry with any displeasure, would offer no opposition to it. This circumstance shews the universal spirit that is gone forth; and proves, that were it pushed a little farther, it might prove a serious matter for all the property in the kingdom. In this case, however, I cannot but commend it; for if there be one public nuisance greater than another, it is a man preferving the possession of

waste land, which he will neither cultivate himself, nor let others cultivate. The miferable people die for want of bread, in the fight of waftes that would feed thoufands. I think them wife, and rational, and philosophical, in seizing such tracks: and I heartily wish there was a law in England for making this action of the French peasants a legal one with us. -- 72 miles.

The 9th. At breakfall this morning in the Thuilleries. Monfieur Definarets, of the Academy of Sciences, brought a Memoire, presentée par la Societé Royale, d'Agriculture, a l'Affemblée Nationale, on the means of improving the agriculture of France; in which, among other things, they recommend great attention to bees, to panification, and to the obfletrick art. On the establishment of a free and patriotic government, to which the national agriculture might look for new and halcyon days, thefe were objects doubtlefs of the first importance. There are some parts of the memoir that really merit attention. Called on my fellow traveller, Monf. Nicolay, and find him a confiderable perfon; a great hotel; many fervants; his father a marechal of France, and himself first president of a chamber in the Parliament of Paris, having been elected a deputy, by the nobility of that city, for the flates general, but declined accepting it; he has defired I would dine with him on Sunday, when he promifes to have Monf. Decretot, the celebrated manufacturer and deputy of Louviers. At the National Affembly-The Count de Mirabeau, speaking upon the question of the members of the chamber of vacation, in the parliament of Rennes, was truly eloquent-ardent, lively, energetic, and impetuous. At night to the affembly of the Duchefs d'Anville; the Marquis and Madame Condor-

cet there, &c. not a word but politics.

The 10th. The chief leaders in the National Affembly, are, Target, Chapellier, Mirabeau, Bernave, Volney the traveller, and, till the attack upon the property of the clergy, l'Abbé Syeyes; but he has been fo much difgusted by that step, that he is not near The violent democrats, who have the reputation of being fo much republican in principle, that they do not admit any political necessity for having even the name of a king, are called the *curagés*. They have a meeting at the Jacobins, called the revolution club, which affembles every night, in the very room in which the famous league was formed, in the reign of Henry III.; and they are fo numerous, that all material bufiness is there decided, before it is discussed by the National Assembly. I called this morning on feveral persons, all of whom are great democrats; and mentioning this circumstance to them, as one which favoured too much of a Paris junto governing the kingdom, an idea, which must, in the long run, be unpopular and hazardous; I was answered, that the predominancy which Paris assumed, at present, was absolutely neceflary for the falety of the whole nation; for if nothing were done, but by procuring a previous common confent, all great opportunities would be loft, and the National Affembly left constantly exposed to the danger of a counter-revolution. They, however, admitted, that it did create great jealoufies, and no where more than at Verfailles, where fome plots (they added) are, without doubt, hatching at this moment, which have the King's person for their object: riots are frequent there, under pretence of the price of bread: and fuch movements are certainly very dangerous, for they cannot exist so near Paris, without the arittocratical party of the old government endeavouring to take advantage of them, and to turn them to a very different end, from what was, perhaps, originally intended. I remarked, in all these conversations, that the belief of plots, among the difguiled party, for fetting the King at liberty, is general; they feem almost perfuaded, that the revolution will not be absolutely finished before some such attempts are made; and it is curious to observe, that the general voice is, that if an attempt were to be made, in such a manner as to have the least appearance of success, it would undoubtedly

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edly cost the King his life: and so changed is the national character, not only in point of affection for the person of their prince, but also in that softness and humanity, for which it has been so much admired, that the supposition is made without horror or compunction. In a word, the present devotion to liberty is a fort of rage; it absorbs every other passion, and permits no other object to remain in view than what promises to confirm it. Dine with a large party at the Duke de la Rochesoucauld's; ladies and gentlemen, and all equally politicians; but I may remark another effect of this revolution, by no means unnatural, which is, that of lessening, or rather reducing to nothing, the enormous insuence of the fex; they mixed themselves before in every thing, in order to govern every thing: I think I see an end to it very clearly. The men in this kingdom were puppets, moved by their wires, who, instead of giving the ton, in questions of national debate, must now receive it, and must be content to move in the political sphere of some celebrated leader—that is to say, they are, in fact, finking into what nature intended

them for; they will become more amiable, and the nation better governed.

The 11th. The riots at Verfailles are faid to be ferious; a plot is talked of, for eight hundred men to march, armed, to Paris, at the infligation of fomebody, to join fomebody; the intention, to murder La Fayette, Bailly, and Necker; and very wild and improbable reports are propagated every moment. They have been fufficient to induce Monf. La Fayette to iffue, yesterday, an order concerning the mode of affembling the militia, in case of any sudden alarm. Two pieces of cannon, and eight hundred men, mount guard at the Thuilleries every day. See some royalists this morning, who affert, that the public opinion in the kingdom is changing apace; that pity for the King, and difgust at some proceedings of the Assembly, have lately done much: they say, that any attempt at present to rescue the King would be absurd, for his present situation is doing more for him than force could effect, at this moment, as the general feelings of the nation are in his favour. They have no fcruple in declaring, that a well concerted vigorous effort would place him at the head of a powerful army, which could not fail of being joined by a great, difgusted, and injured body. I remarked, that every honest man must hope no such event would take place; for if a counter-revolution should be effected, it would establish a despotism, much heavier than ever France experienced. This they would not allow; on the contrary, they believed, that no government could, in future, be fecure, that did not grant to the people more extensive rights and privileges than they possessed under the old one. Dine with my brother traveller, the Count de Nicolay; among the company, as the count promifed me, was Monf. Decretot, the celebrated manufacturer of Louviers, from whom I learned the magnitude of the diftreffes at prefent in Normandy. The cotton mills which he had shewn me, last year, at Louviers, have flood still nine months; and so many spinning jennics have been destroyed by the people, under the idea that such machines were contrary to their interests, that the trade is in a deplorable fituation. In the evening, accompanied Monf. Lazowski to the Italian opera, La Berbiera di Seviglia, by Paiefello, which is one of the most agreeable compositions of that truly great malter. Mandini and Rassanelli excellent, and Baletti a fweet voice. There is no fuch comic opera to be feen in Italy, as this of Paris, and the house is always full: this will work as great a revolution in French music, as ever can be wrought in French government. What will they think, by and by, of Lully and Rameau? And what a triumph for the manes of Jean Jaques!

The 12th. To the National Assembly:—a debate on the conduct of the chamber of vacation in the parliament of Rennes, continued. Mons. l'Abbé Maury, a zealous royalist, made a long and eloquent speech, which he delivered with great sluency and precision, and without any notes, in desence of the parliament: he replied to what had

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been urged in the Count de Mirabeau, on a former day, and spoke strongly on his unon the people of Bretagne, to a redoubtable denombrement. He faid, that it would be a become the members of fuch an affembly, to count their own principles and duties, and the fruits of their attention, to the privileges of the subject, than to call for a denombrement, that would fill a province with fire and bloodshed. He was interrupted by the noise and confusion of the assembly, and of the audience, fix several times; but it had no effect on him; he waited calmly till it subsided, and then proceeded, as if no interruption had been given. The fpeech was a very able one, and much relished by the royalists; but the enragés condemned it, as good for nothing. No other person fpoke without notes; the Count de Clermont read a fpeech that had fome brilliant paffages, but by no means an answer to l'Abbé Maury, as indeed it would have been wonderful if it were, being prepared before he heard the Abbé's oration. It can hardly be conceived how flat this mode of debate renders the transactions of the Assembly. Who would be in the gallery of the English House of Commons, if Mr. Pitt were to bring a written speech, to be delivered on a subject on which Mr. Fox was to speak before him? And in proportion to its being uninteresting to the hearer is another evil, that of lengthening their fittings, fince there are ten perfons who will read their opinions, to one that is able to deliver an impromptu. The want of order, and every kind of confusion, prevails now almost as much as when the Assembly fat at Versailles. The interruptions given are frequent and long; and speakers, who have no right, by the rules to speak, will attempt it. The Count de Mirabeau pressed to deliver his opinion after the Abbé Maury; the prefident put it to the vote, whether he fhould be allowed to fpeak a fecond time, and the whole house rose up to negative it; so that the first orator of the Assembly has not the influence even to be heard to explain - we have no conception of fuch rules; and yet their great number must make this necessary. I forgot to observe, that there is a gallery at each end of the faloon, which is open to all the world; and fide ones for admillion of the friends of the members by tickets: the audience in these galleries are very noify: they clap, when any thing pleafes them, and they have been known to hifs; an indecorum which is utterly destructive of freedom of debate. I left the house before the whole was finished, and repaired to the Duke of Liancourt's apartments in the Thuilleries, to dine with his customary party of deputies; Mess. Chapellier and Demeusniers were there, who had both been presidents, and are still members of considerable distinction; M. Volney, the celebrated traveller, also was present; the Prince de Poix, the Count de Montmorenci, &c. On our waiting for the Duke of Liancourt, who did not arrive till half after feven, with the greatest part of the company, the converfation almost entirely turned upon a strong suspicion entertained of the English having made a remittance for the purpose of embroiling matters in the kingdom. The Count de Thiard, cordon blue, who commands in Bretagne, simply stated the fact, that fome regiments at Brest had been regular in their conduct, and as much to be depended on as any in the fervice; but that, of a fudden, money had found its way among the men in confiderable fums, and from that time their behaviour was changed. One of the deputies demanding at what period, he was answered *; on which he immediately observed, that it followed the remittance of 1,100,000 livres (48,1251.) from England, that had occasioned so much conjecture and conversation. This remittance which had been particularly enquired into, was so mysterious and obscure, that the naked fact only could be discovered; but every person present afferted the truth of it. Other gentlemen united the two facts, and were ready to suppose them connected. I remarked,

^{*} It was a late transaction.

that if England had really interfered, which appeared to me incredible, it was to be prefumed, that it would have been either in the line of her supposed interest, or in that of the King's supposed inclination; that these happened to be exactly the same, and if money were remitted from that kingdom, most assuredly it would be to support the falling interest of the crown, and by no means to detach from it any force whatever; in fuch a cafe remittance from Eng'and might go to Metz, for keeping troops to their duty, but would never be fent to Brest to corrupt them, the idea of which was grossly abfurd. All feemed inclined to admit the juftness of this remark, but they adhered to the two facts, in whatever manner they might, or might not, be connected. At this dinner, according to cultom, most of the deputies, especially the younger ones, were dreffed au poliffon, many of them without powder in their hair, and fome in boots; not above four or five were neatly dreffed. How times are changed! When they had nothing better to attend to, the fashionable Parisians were correctness itself, in all that pertained to the toilette, and were, therefore, thought a frivolous people; but now they have fomething of more importance than drefs to occupy them; and the light airy character that was usually given them, will have no foundation in truth. Every thing in this world

depends on government.

The 13th. A great commotion among the populace late last night, which is said to have arisen on two accounts-one to get at the Baron de Besneval, who is in prison, in order to hang him; the other to demand bread at 2st the pound. They cat it at prefent at the rate of twenty-two millions a-year cheaper than the rest of the kingdom, and yet they demand a farther reduction. However, the current discourse is, that Favras, an adventurer also in prison, must be hanged to satisfy the people; for as to Besneval, the Swifs cantons have remonstrated fo firmly, that they will not dare to execute him. Early in the morning, the guards were doubled, and eight thousand horse and foot are now patrolling the streets. The report of plots, to carry off the King, is in the mouth of every one; and it is faid, these movements of the people, as well as those at Verfailles, are not what they appear to be, mere mobs, but infligated by the ariftocrats; and if permitted to rife to fuch a height as to entangle the Paris militia, will prove the part only of a conspiracy against the new government. That they have reason to be alert is undoubted; for though there should actually be no plots in existence, yet there is fo great a temptation to them, and fuch a probability of their being formed, that fupineness would probably create them. I have met with the lieutenant-colonel of a regiment of horse, who is come from his quarters, and who afferts, that his whole regiment, officers and men, are now at the King's devotion, and would march wherever he called, and would execute whatever he ordered, not contrary to their ancient feelings; but that they would not have been inclined to be so obedient before he was brought to Paris; and from the conversation he has had with the officers of other regiments, he believes that the fame spirit pervades their corps also. If any serious plans have been laid for a counter-revolution, or for carrying off the King, and their execution has been, or shall be prevented, posterity will be much more likely to have information of it than this age. Certainly the eyes of all the fovereigns, and of all the great nobility in Europe, are on the French revolution; they look with amazement, and even with terror, upon a fituation which may possibly be hereafter their own case; and they must expect, with anxiety, that fome attempts will be made to reverse an example, that will not want copies, whenever the period is favourable to make them. Dine at the Palais Royal, with a felect party; politicians they must be, if they are Frenchmen. question was discussed, Are the plots and conspiracies of which we hear so much at prefent, real, or are they invented by the leaders of the revolution, to keep up the

fpirits of the militia, in order to enable themselves to secure the government on its new foundation irreversibly?

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The 14th. Plots! plots!—the Marquis La Fayette, last night, took two hundred prisoners in the Champs Elysees, out of eleven hundred that were collected. They had powder and ball but no musquets. Who? and what are they? is the question; but an answer is not so easily to be had. Brigands, according to some accounts, that have collected in Paris for no good purpose; people from Verfailles by others; Germans by a third: but every one would make you believe, they are an appendix to a plot laid for a counter-revolution. Reports are fo various and contradictory, that no dependence is to be placed on them; nor credit given to one-tenth of what is afferted. It is fingular, and has been much commented on, that La Fayette would not truft his flanding troops, as they may be called, that is the eight thousand regularly paid, and of whom the French guards form a confiderable portion, but he took, for the expedition, the bourgeoife only; which has elated the latter as much as it has difgusted the former. The moment feems big with events; there is an auxiety, an expectation, an uncertainty, and fuspence that is visible in every eye one meets; and even the best informed people, and the least liable to be led away by popular reports, are not a little alarmed at the apprehenfion of some unknown attempt that may be made to rescue the King, and overturn the National Affembly. Many perfons are of opinion, that it would not be difficult to take the King, Queen, and Dauphin away, without endangering them, for which attempt the Thuilleries is particularly well fituated, provided a body of troops, of fufficient force, were in readings to receive them. In such a case, there would be a civil war, which, perhaps, would end in despotifm, whatever party came off victorious; confequently fuch an attempt, or plan, could not originate in any bosom from true patriotim. If I have a fair opportunity to pals much of my time in good company at Paris, I have also no small trouble in turning over books, MSS, and papers, which I cannot fee in England: this employs many hours a day, with what I borrow from the night, in making notes. I have procured also some public records, the copying of which demands time. He who withes to give a good account of fuch a kingdom as France, must be indefatigable in the search of materials; for let him collect with all the care possible, yet when he comes to fit down coolly to the examination and arrangement, will find, that much has been put into his hands, of no real confequence, and more, poffibly, that is abfolutely ufclefs.

The 15th. To the Palais Royal, to view the pictures of the Duke of Orleans, which I had tried once or twice before to do in vain. The collection is known to be very rich in pieces of the Dutch and Flemish masters; some finished with all the exquisite attention which that school gave to minute expression. But it is a genre little interesting, when the works of the great Italian artifts are at hand: of these the collection is one of the first in the world: Raphael, Hanibal Carracci, Titian, Dominichino, Correggio, and Paul Veronese. The first picture in the collection, and one of the finest that ever came from the easel, is that of the three Maries, and the dead Christ, by H. Carracci; the powers of expression cannot go further. There is the St. John of Raphael, the fame picture as those of Florence and Bologna; and an inimitable Virgin and Child; by the fame great mafter. A Venus bathing, and a Magdalen, by Titian. Lucretia, by Andrea del Sarto. Leda, by Paul Veronese, and also by Tintoretto. Mars and Venus, and feveral others, by Paul Veronefe. The naked figure of a woman, by Bonieu, a French painter, now living, a pleasing piece. Some noble pictures, by Poulfin and Le Seur. The apartments must disappoint every one:-I did not see one good room, and all inferior to the rank and immense fortune of the possessor, certainly the

ank and immente fortune of the possessor, certainly the

first subject in Europe. Dine at the Duke of Liancourt's: among the company was Monf. de Bouganville, the celebrated circumnavigator, agrecable as well as feufible; the Count de Castellane, and the Count de Montinorenci, two young legislators, as enragés as if their names were only Bernave or Rabeau. In some allusions to the constitution of England, I found they hold it very cheap, in regard to political liberty. The ideas of the moment, relative to plots and conspiracies, were discussed, but they seemed very generally to agree, that, however the conflitution might, by fuch means, be delaved, it was now absolutely impossible to prevent its taking place. At night to the national circus, as it is called, at the Palais Royal, a building in the gardens, or area of that palace, the most whimsical and expensive folly that is easily to be imagined: it is a large ball room, funk half its height under ground; and, as if this circumstance were not fufficiently adapted to make it damp enough, a garden is planted on the roof, and a river is made to flow around it, which, with the addition of fome spiriting jets d'eau, have undoubtedly made it a delicious place, for a winter's entertainment. The expence of this gew-gaw building, the project of some of the Duke of Orleans' friends, I suppofe, and executed at his expence, would have established an English farm, with all its principles, buildings, live flock, tools, and crops, on a feale that would have done honour to the first fovereign of Europe; for it would have converted five thousand arpenis of defert into a garden. As to the refult of the mode that has been pursued, of investing fuch a capital, I know no epithet equal to its merits. It is meant to be a concert. ball, coffee, and billiard room, with shops, &c. defigned to be something in the style of the amusements of our Pantheon. There were music and finging to night, but the room being almost empty, it was, on the whole, equally cold and fumbre.

The 16th. The idea of plots and conspiracies has come to such a height as greatly to alarm the leaders of the revolution. The difguit that threads every day at their transactions, arifes more from the King's fituation than from any other circumflance. They cannot, after the fcenes that have passed, venture to set him at liberty before the constitution is finished: and they dread, at the same time, a change working in his favour in the minds of the people: in this dilemma, a plan is laid for perfuading his Majefly to go fuddenly to the National Affembly, and, in a fpeech, to declare himfelf perfectly fatisfied with their proceedings, and to confider himfelf as at the head of the revolution, in terms fo couched as to take away all idea or pretence of his being in a state of confinement or coercion. . This is at present a favourite plan; the only difficulty will be, to perfuade the King to take a step that will apparently preclude him from whatever turn or advantage the general feeling of the provinces may work in his favour; for, after such a measure, he will have reason to expect that his friends will second the views of the democratical party, from an absolute despair of any other principles becoming efficient. It is thought probable, that this scheme will be brought about; and should it be accomplished, it will do more to ease their apprehensions of any attempts than any I have been among the bookfellers, with a catalogue in hand to collect other plan. publications, which, unfortunately for my purie, I find I must have on various topics, that concern the present state of France. - These are now every day so numerous, especially on the subjects of commerce, colonies, finances, taxation, deficit, &c. not to fpeak of the fubject immediately of the revolution itself, that it demands many hours every day to leffen the number to be bought, by reading pen in hand. The collection the Duke of Liancourt has made from the very commencement of the revolution, at the first meeting of the notables, is prodigious, and has cost many hundred louis d'or. It is uncommonly complete, and will hereafter be of the greatest value to confult on abundance of curious questions.

The

The 17th. The plan I mentioned yesterday, that was proposed to the King, was urged in vain: his Majesty received the proposition in such a manner as does not leave any great hope of the scheme being executed; but the Marquis la Fayette is so strenuous for its being brought about, that it will not yet be abandoned; but proposed again at a more favourable moment. The royalists, who know of this plan, (for the public have it not) are delighted at the chance of its failing. The refufal is attributed to the Queen. Another circumstance, which gives great disquiet at present to the leaders of the revolution, is the account daily received from all parts of the kingdom, of the diffress, and even starving condition of manufacturers, artists, and failors, which grows more and more ferious, and must make the idea of an attempt to overturn the revolution so much the more alarming and dangerous. The only branch of industry in the kingdom, that remains flourishing, is the trade to the fugar-colonies; and the scheme of emancipating the negroes, or at least of putting an end to importing them, which they borrowed from England, has thrown Nantes, Havre, Marfeilles, Bourdeaux, and all other places connected fecondarily with that commerce, into the utmost agitation. The Count de Mirabeau fays publicly, that he is fure of carrying the vote to put an end to negro flavery—it is very much the conversation at prefent, and principally amongst the leaders, who fay, that as the revolution was founded on philosophy, and supported by metaphysics, such a plan cannot but be congenial. But surely trade depends on practice much more than on theory; and the planters and merchants, who come to Paris to oppose the scheme, are better prepared to shew the importance of their commerce, than to reason philosophically on the demerits of slavery. Many publications have appeared

on the fubject - fome deferving attention. The 18th. At the Duke of Liancourt's dinner, to-day, meet the Marquis de Cafaux, the author of the mechanism of societies; notwithstanding all the warmth, and even fire of argument, and vivacity of manner and composition for which his writings are remarkable, he is perfectly mild and placid in conversation, with little of that effervefcence one would look for from his books. There was a remarkable affertion made today, at table, by the Count de Margueritc, before near thirty deputies; fpeaking of the determination on the Toulon business, he said, it was openly supported by deputies, under the avowal that more infurrections were necessary. I looked round the table, expecting fome decifive answer to be given to this, and was amazed to find that no one replied a word. Monf. Volney, the traveller, after a paufe of fome minutes, declared that he thought the people of Toulon had acted right, and were justifiable in what they The history of this Toulon business is known to all the world. This Count de Marguerite has a teté dure and a fleady conduct --it may be believed that he is not an enrage. At dinner, M. Blin, deputy from Nantes, mentioning the conduct of the revolution club at the Jacobins, faid, we have given you a good prefident; and then asked the count why he did not come among them? He answered, Je me trouve beureux en verité de n'avoir samais été d'aucune société politique particuliere ; je pense que mes fonctions sont publiques, et qu'elles peuvent alsément se remplir sans associations particulieres. He got no reply here. At night, Monf. Decretot, and Monf. Blin, carried me to the revolution club at the Jacobins; the room where they affemble, is that in which the famous league was figned as it has been observed above. There were above one hundred deputies prefent, with a prefident in the chair; I was handed to him, and announced as the author of the Arithmetique Politique; the prefident standing up, repeated my name to the company, and demanded if there were any objections—None; and this is all the ceremony, not merely of an introduction, but an election: for I was told, that now I was empowered to be prefent when I pleafed, being a foreigner. 'Ten

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or a dozen other elections were made. In this club, the business that is to be brought into the National Assembly is regularly debated; the motions are read, that are intended to be made there, and rejected or corrected and approved. When these have been fully agreed to, the whole party are engaged to support them. Plans of conduct are there determined; proper persons nominated for being of committees, and presidents of the Assembly named. And I may add, that such is the majority of numbers, that whatever passes in this club, is almost sure to pass in the Assembly. In the evening at the Duchess d'Anville's, in whose house I never failed of spending my time

agreeably.

One of the most amusing circumstances of travelling into other countries, is the opportunity of remarking the difference of cultoms amongst different nations in the common occurrences of life. In the art of living, the French have generally been efteemed by the rest of Europe to have made the greatest proficiency, and their manners have been accordingly more imitated, and their cuftoms more adopted than those of any other nation. Of their cookery, there is but one opinion; for every man in Europe, that can afford a great table, either keeps a French cook, or one inftructed in the fame manner. That it is far beyond our own, I have no doubt in afferting. We have about half a dozen real English dishes, that exceed any thing, in my opinion, to be met with in France; by Englith diffies I mean, a turbot and lobfter fauce—ham and chicken turtle—a haunch of venifon—a turkey and oysters—and after these there is an end of an English table. It is an idle prejudice to class roast beef among them; for there is not better beef in the world than at Paris. Large handfome pieces were almost conflantly on the confiderable tables I have dired at. The variety given by their cooks, to the fame thing, is affonishing; they drefs an hundred dishes in an hundred disferent ways, and most of them excellent; and all forts of vegetables have a savouriness and flavour, from rich fauces, that are abiolutely wanted to our greens boiled in water. This variety is not striking, in the comparison of a great table in France with another in England; but it is manifelt, in an inflant, between the tables of a French and English family of finall fortune. The English dinner, of a joint of meat and a pudding, as it is called, or pot luck, with a neighbour, is bad luck in England; the fame fortune in France, gives, by means of cookery only, at least four dishes to one among us, and fpreads a finall table incomparably better. A regular defert with us is expected at a confiderable table only, or at a moderate one, when a formal entertainment is given; in France it is as effential to the finalless dinner as to the largest; if it consist of a bunch of dried grapes only, or an apple, it will be as regularly ferved as the foup. I have met with perfons in England, who imagine the fobriety of a French table carried to fuch a length, that one or two glaffes of wine are all that a man can get at dinner; this is an error: your fervant mixes the wine and water in what proportion you pleafe; and large bowls of clean glaffes are fet before the mafter of the house, and some friends of the family, at different parts of the table, for ferving the richer and rarer forts of wines, which are drunk in this manner freely enough. The whole nation are ferupuloufly neat in refufing to drink out of glaffes ufed by other people. At the house of a carpenter or blackfinith, a tumbler is fet to every cover. This refults from the common beverage being wine and water; but if at a large table, as in England, there were porter, beer, eyder, and perry, it would be impossible for three or four numbers or golilets to fland by every plate; and equally fo for the fervants to keep fuch a number feparate and diffind. In table-linen, they are, I think, cleaner and wifer than the Englifh; that the change may be inceffant, it is every where coarfe. The idea of dining without a napkin feems ridiculous to a Frenchman, but in England we dine at the tables in.

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of people of tolerable fortune, without them. A journeyman carpenter in France has his napkin as regularly as his fork; and at an inn, the fille always lays a clean one to every cover that is spread in the kitchen, for the lowest order of pedestrian travellers. The expence of linen in Fugland is enormous, from its fineness; furely a great change of that which is coarfe, would be much more rational. In point of cleanliness, I think the merit of the two nations is divided; the French are cleaner in their persons, and the English in their houses; I speak of the mass of the people, and not of individuals of confiderable fortune. A bidet in France is as univerfally in every apartment, as a bafon to wash your hands, which is a trait of personal cleanliness I wish more common in England; on the other hand their necessary houses are temples of abomination; and the practice of fpitting about a room, which is amongst the highest as well the lowest ranks, is detellable; I have feen a gentleman fpit fo near the clothes of a duchefs, that I have flared at his unconcern. In every thing that concerns the flables, the English far exceed the French; horses, grooms, harness, and change of equipage; in the provinces you fee cabriolets of the last century; an Englishman, however small his fortune may be, will not be feen in a carriage of the fashion of forty years past; if he cannot have another, he will walk on foot. It is not true that there are no complete equipages at Paris, I have feen many; the carriage, horses, harness, and attendance, without fault or blemish; -- but the number is certainly very much inferior to what are seen at London. English horses, grooms, and carriages, have been of late years largely imported. In all the articles of fitting up and furnishing houses, including those of all ranks in the estimate, the English have made advances far beyond their neighbours. Mahogany is scarce in France, but the use of it is profuse in England. Some of the hotels in Paris are immense in fize, from a circumstance which would give me a good opinion of the people, if nothing elfe did, which is the great mixture of families. When the eldest fon marries, he brings his wife home to the house of his father, where there is an apartment provided for them; and if a daughter do not wed an eldest fon, her husband is also received into the family, in the same way, which makes a joyous number at every table. This cannot altogether be attributed to economical motives, though they certainly influence in many cases, because it is sound in families possessing the first properties in the kingdom. It does with French manners and customs, but in England it is fure to fail, and equally fo amongst all ranks of people: may we not conjecture, with a great probability of truth, that the nation in which it fucceeds is therefore better tempered? Nothing but good humour can render fuch a jumble of families agreeable, or even tolerable. In dress they have given the ton to all Europe for more than a century; but this is not among any but the highest rank an object of such expense as in England, where the mass of mankind wear much better things (to use the language of common converfation) than in France: this struck me more amongst ladies who, on an average of all ranks, do not dress at one half of the expence of English women. Volatility and changeableness are attributed to the French as national characteristics,—but in the case of dress with the groffest exaggeration. Fashions change with ten times more rapidity in England, in form, colour, and affemblage; the viciflitudes of every part of dress are fantastic with us: I fee little of this in France; and to inflance the mode of dreffing the gentlemen's hair, while it has been varied five times at London, it has remained the fame at Paris. Nothing contributes more to make them a happy people, than the chearful pliancy of disposition with which they adapt themselves to the circumstances of life: this they possess much more than the high and volatile spirits which have been attributed to them; one excellent consequence is, a greater exemption from the extravagance of living beyond their fortunes, than is met with in England. In the highest ranks of life, there Q Q 2

are instances in all countries; but where one gentleman of small property, in the provinces of France runs out his fortune, there are ten such in England that do it. In the blended idea I had formed of the French character from reading, I am disappointed as to three circumstances, which I expected to find predominant. On comparison with the English, I looked for great talkativeness, volatile spirits, and universal politeness. I think, on the contrary, that they are not so talkative as the English; have not equally good spirits, and are not a jot more polite: nor do I speak of certain classes of people, but of the general mass. I think them, however, incomparably better tempered; and I propose it as a question, whether good temper be not more reasonably expected under

an arbitrary, than under a free government.

The 10th. My last day in Paris, and, therefore, employed in waiting on my friends, to take leave; amongst whom, the Duke de Liancourt holds the first place; a nobleman, to whose uninterrupted, polite, and friendly offices I owe the agreeable and happy hours which I have passed at Paris, and whose kindness continued so much, to the last, as to require a promife, that if I should return to France, his house, either in town or country, should be my home. I shall not omit observing, that his conduct in the revolution has been direct and manly from the very beginning; his rank, family, fortune, and fituation at court, all united to make him one of the first subjects in the kingdom; and upon public affairs being fufficiently embroiled, to make allemblies of the nobility necessary, his determined resolution to render himself master of the great questions which were then in debate, was feconded by that attention and application which were requifite in a period, when none but men of bufiness could be of importance in the flate. From the first assembling of the States General, he resolved to take the party of freedom; and would have joined the tirs at first, if the orders of his constituents had not prevented it; he defired them, however, either to confent to that step or to elect another reprefentative; and, at the fame time, with equal liberality, he declared, that if ever the duty he owed his country became incompatible with his office at court, he would refign it; an act that was not only unnecessary, but would have been abfurd, after the King himself had become a party in the revolution. By espousing the popular cause, he acted conformably to the principles of all his ancestors, who in the civil wars and confusions of the preceding centuries, uniformly opposed the arbitrary proceedings The decifive fleps which this nobleman took at Verfailles, in advifing of the court. the King, &c. &c. are known to all the world. He is, undoubtedly to be esteemed one of those who have had a principal share in the revolution, but he has been invariably guided by conflitutional motives; for it is certain, that he has been as much averfe from unnecessary violence and fanguinary measures, as those who were the most attached to the ancient government. With my excellent friend Lazowski, I spent my last evening; he endeavoured to perfuade me to refide upon a farm in France, and I enticing him to quit French buftle for English tranquillity.

The 20th—25th. By the diligence to London, where I arrived the 25th; though in the most commodious feat, yet languishing for a horse, which, after all, affords the best means of travelling. Passing from the first company of Paris to the rabble which one sometimes meets in diligences, is contrast sufficient,—but the idea of returning to England, to my family and friends, made all things appear smooth, — 272 miles.

The 30th. To Bradfield; and here terminate, I hope, my travels. After having furveyed the agriculture and political refources of England and Ireland, to do the fame with France, was certainly a great object, the importance of which animated me to the attempt: and however pleafing it may be to hope for the ability of giving a better account of the agriculture of France than has ever been laid before the public, yet the

greatest satisfaction I seel, at present, is the prospect of remaining, for the suture, on a farm, in that calm and undisturbed retirement, which is suitable to my fortune, and which, I trust, will be agreeable to my disposition.——72 miles.

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PART THE SECOND.

CHAP. I. - Of the Extent of France.

THE circumftances which are most apt to command the attention of mankind, for giving importance to a country, are really valuable no farther than as they contribute to the case and prosperity of the inhabitants. Thus the extent of a kingdom is of no other confequence than affording nourithment for a people too numerous to be reasonably apprehensive of foreign conquest. When a territory is much more confierable than for this purpole, it tends to inspire ambitious projects in the minds of the men that govern, which have proved, perhaps, more difastrous than the deficiency of power that endangers the national defence. France, under Lewis XIV. was a remarkable inflance of this fact. The fituation to which the ambition of that prince had reduced her immense territory, was hardly preferable to that of Holland, in 1672, whose misfortunes, flowed from the same origin. Of the two extremes, France has undoubtedly more to apprehend from the ambition of her own rulers, than from that of any neighbour. Authorities vary confiderably in describing the extent of this fine kingdom. The Maréchal de Vauban makes it 30,000 leagues, or 140,940,000 arpents; Voltaire 130,000,000 arpents.—The accuracy of round numbers is always to be doubted. Templeman gives it an extent of 138,837 square geographical miles, of fixty to a degree; a measurement, which renders his tables absolutely useless for any purpofe, but that of comparing one country with another, a degree being fixty-nine miles and a half, which makes it 119,220,874 16 a acres.—Paucton reduces his measure to French arpents, and makes the number 107, 290,000. The Encyclopædia, article France, assigns 100,000,000 of arpents as the contents; and observes, that, by Cassini's maps, the amount is 125,000,000. A late author * calculates it at 105,000,000: and another † at 135,600,000. None of these accounts seem sufficiently accurate for the purpose of giving a correct idea. The authority on which I am inclined most to rely is that of M. Necker t, who calculates it (without Corfica) at 26,951 leagues fquare, of 22822 toifes; this, I find, amounts to 156,024,213 arpents of Paris, or 131,722,295 English acres. Paucton, by covering his map with shot to every indenture of outline, with the greatest care, found the kingdom to contain 103,021,840 arpents, each of 100 perch, at 22 feet the perch, or 1344% toiles square to the arpent; instead of which the arpent of Paris contains but 900 toifes:—this meafurement makes 81,687,016 English acres § .- Notwithstanding the credit usually given to this writer for his accuracy, I must here reject his authority in favour of that of M. Necker. Paucton's calculation, which gives \$1,687,016 English acres to France, assigns by the same rule to England 24,476,315 ||; yet Templeman's furvey, at 60 miles to a degree, and therefore confessedly below the truth, makes it 31,048,000, which, at 69; to a degree, are

12,463,26416

^{*} L'Impôt Abonné, 4to 1789. † Apologie fur l'Edict de Nantes. † Ocuvres, 4to. p. 326. § I have made this reduction, by valuing, with Paucton, the French argent at 1.0000, and the English o. 529. || That is 30,869,360 argents royale, of 22 feet to the perch.

42,463,264+2; a greater difference than is found between them in estimating the surface of France, which, by Paucson, is made 81,587,016 English acres, with a general admission of about a million more; and by Templeman, 88,855,685; or at 691, is 119,220,874+3.

It is vain to attempt reconciling these contrary accounts. I shall therefore adopt, with the author of the Credit Nationale*, the ellimation of M. Necker, which supposes 156,024,113 arpents of Paris, or 131,722,205 English acres.

For a comparison of the French and English dominions, I must for the latter adopt

Templeman's measurement, who gives to

Eigland, 49,450 fquare miles. France, 138,837 fquare miles, Scotland, 27,794
Ireland, 27,457

Calculated at 60 to a degree; but at 691 these numbers become,

England, 66,343 - 42,463,264 France, 186,282 - 119,220,874.
Scotland, 37,292 - 23,867,016
Ireland, 36,840 - 23,577,630

Hence it appears, that France, according to these proportions, contains 29,312,964 acres more than the three British kingdoms; and it is to be noted, that as the extent of France is taken from the more modern and correct authorities, whence M. Necker deduced his measurement at 131,722,295 English acres, which is consequently much more exact than that of Templeman; so it is equally fair to suppose, that the latter is as much below the sact in the contents of our islands, as he was in those of France. Corrected by this rule, the areas will be

England †, 46,915,933 † acres. | France, 131,722,295 acres. Scotland, 26,369,695 | Ireland, 25,049,961 | 99,335,589

These numbers, I am upon the whole inclined to believe, are as near to the truth as may reasonably be expected from calculations, when the data are not absolutely correct.

CHAP. II. - Of the Soil, and Face of the Country.

THE modern French geographers, in a branch of that science to which they have properly given the epithet physical, have divided the kingdom into what they call bassing that is to say, into several great plains, through which slow the prices, as evers, and which are formed of several ridges of mountains, either original, or as they term it, of granite, or secondary of calcareous and other materials. Of these bassins the chief

• Monf. Jores Svo. 1789. He calculates on 27,000 leagues, at 2282 toifes, 5786 arpents of Paris in a league; or in . The 156,025,120 arpents. P. 15.

1 Rmay be remained, that Dr. G. ew calculated the real contents of England and Wales at 46,080,000 acres. Fhilosophical 27. Actions, 180 330, p. 266. Which from a confirmation that we are not far from the truth.

[1 4 and 10 73,306 square miles.

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are, 1. Of the Loire and all the rivers that fall into it. 2. Of the Seine and its branches.

3. Of the Garonne. 4. Of the Rhone and Soane. There are likewise some smaller ones, but of much less account. The reader who wishes to consult the detail of these, may turn to the Journal Physique, tom. 30. for a memoir by M. la Metherie.

In respect to the geoponic division of the foils of the kingdom, the rich calcareous plain of the north-callers quarter first calls for our attention. I crosted this in several directions, and from the observations I made, the following are the limits I would affign to it. On the coall it may be faid to extend from Dunkirk to Carentan in Normandy, for the northern promontory of that province, which projects into the fea at Cherbourg, &c. is of a different toil. In M. la Metherie's map is marked a ridge of granite mou. tains in this promontory; I fhould remark, that I faw nothing in that country which deferves the name of a mountain, any more than at Alençon; merely hills, and those not confiderable ones. I may terminate the rich track at Carentan, as thence to Contances the land is chiefly poor and flony, and holds, with many variations, quite to Breft. In the line a little to the S. of the coalt, before Caen, is feen the first considerable change of foil from Calais; it there becomes a red flone braft; this rich tract is here, there-On re-entering Normandy on the fide of Alençon, from Anjon and Maine, I first met with the rich leams on a calcareous bottom at Beaumont; at Alençon there is a noble foil, which I then loft no more in advancing northwards. In another line I entered this rich district about ten miles to the fouth of Tours. The hills on the Loire, though all calcarcous that I noticed, are not all rich, though on fome the foil is deep and good. Directly to the fouth of Orleans begins the miferable Sologne, which, though on a calcareous bottom of mail, is too poor to be included in the prefent diffrict. From Orleans to Paris, and also Fontainbleau, no exceptions are to be made, but in the small space of poor fand stone in the royal forest of the latter town. In a fourth direction this diffrict is entered, but no fo decifively as in the preceding cases, a few miles to the fouth of Nemours. At Croifiere the first chalk is visible to the traveller. Advancing to the N. E. very good land is found near Nangis, and then bearing N. I entered the fertile plain of Brie. Some of the vales through which the Marne flows are rich and what I faw calcareous; but the hills are poor. The plain of Rheims may be classed in the present district, but at Soissons and thence due N. all is excellent. These limits inclose one of the finest territories that I suppose is to be found in Europe. From Dunkirk to Nemours is not lefs than one hundred and eighty miles in a right line. From Soiffons to Carentan is another right line of about two hundred miles. From Eu, on the Norman coast, to Chartres is one hundred miles; and though the breadth of this rich diffrict at Caen, Bayeux, &c. is not confiderable, yet the whole will be found to contain not a trifling proportion of the whole kingdom. This noble territory includes the deep, level, and fertile plain of Flanders, and part of Artois, than which a richer foil can hardly be defired to repay the industry of mankind; two, three, and even four feet deep of molft and putrid, but friable and mellow loam, more inclining to clay than fand, on a calcargous bottom, and from its marine origin (for there can be little doubt but that the whole plain of Flanders and Holland has been covered by the fea, long fince our globe has taken its prefent appearance) abounding with particles that add to the common fertility, refulting from fuch compounds found in other fituations. The putridity of the bumus in Flanders and its position, being a dead level, are the principal circumftances that diffinguish it from the better foils of the rest of this fertile part of Europe. Every the plot the way from the very gate of Paris to near Soiffons, and thence to Cambray, with but little variation of fome inferior hills of small extent, is a fandy loan of an admirable texture, and commonly of confiderable depth. About Meaux it

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is to be ranked among the finest in the world; they call it bleaunemeau—it tends much towards an impalpable powder, which betrays few figns of fand, even when, to the eye, it has the appearance of a fandy loam. It is of an admirable texture and friability. Monf. Gibert informed me, that it is of the depth of eighteen feet where his well is digged, and under it a stratum of white marl, found under the whole country, at different depths. This marl has the appearance of a confolidated patte. The line through Picardy is inferior, yet, for the most part, excellent. But all the arable part of Normandy, which is within these limits, is of the same rich friable sandy loam, to a great depth; that from Bernay to Elbœuf can scarcely be exceeded; four to five feet deep of a reddish brown loam on a chalk bottom, and without a stone. As to the pastures of the same province, we have, I believe, nothing either in England or Ireland equal to them: I hold the vale of Limerick to be inferior. The famous Pays de Beauce, which I croffed between Arpajon and Orleans, refembles the vales of Meaux and Senlis; it is not, however, in general, fo deep as the former. The limits I have traced are those of great fertility; but the calcareous district, and even of chalk, is much more extensive. To the E. it reaches acrofs Champagne; a strong change, not having occurred to me till about St. Menehould. From Metz to Nancy all is calcareous, but not chalk. Lime-stone land I found plentifully in the fouthern parts of Alface; and from Before across Franche Compté to Dole, all the stones I tried, and many from quarries were calcarcous. Immenfe diffricts in Dauphiné and Provence, &c. &c. are the fame; I shall therefore only observe, that I remarked the chalk country to extend E. to about St. Menehould, and S. to Nemours and Montargis * in one line. In another, that all of the Angoumois which I faw is the fame; much in Poitou, and through Tourain to the Loire. Had I penetrated more to the W. I should probably have found the chalk of Angoumois, and that of the Loire to be connected uninterruptedly. Most of the course of the Loire is, I believe, chalk, and the whole of it calcareous. Hence it appears, that the chalk country of France is of very confiderable extent; not less than two hundred miles E. and W. and about as much, but more irregularly, N. and S. and comprises, by far, the richest and most fertile provinces of the kingdom.

The next confiderable district, for fertility, is that which I may call, without impropriety, the plain of the Garonne. Passing to the S. from Limosin, it is entered about Creiffenfac, with the province of Quercy, and improves all the way to Montauban and Touloufe, where it is one of the finest levels of fertile foil that can any where be feen. It continues, but not equally fruitful, to the foot of the Pyrenees, by St. Gaudents, &c. very even to the eye, when viewed from the promenade at Montauban, which commands one of the richeft, as well as magnificent profpects, to be met with in France. This plain I found, however, to be much indented and irregular; for to the W. of Auch, and all beyond it to Bayonne, is too inferior to be admitted; and to the E. Mirepoix, Pamiers, and Carcaffonne are among the hills, and all the way from Agen to bourdeaux, though the river flows through one of the richeft vallies that is to be feen in the world, yet the breadth appeared to be every where inconfiderable. Through all this plain, wherever the foil is found excellent, it confills ufually of a deep mellow friable fandy loam, with moiflure fufficient for the production of any thing; much of it is calcareous. White lime-flone and white chalky loams are found about Cahors. &c. and white loams more tenacious near Montauban. At Tonnai ce, on the Garonne, they are red, and

apparently as good at ten feet deep as on the furface.

[•] It elieve much further; and there is the more reason to think so, because Mr. Townshend found that in another road it reached to Auxere, where he lost it. Journ's through Spain, vol. i p. 46.

In travelling from Narbonne to Beziers, Pezenas, Montpellier, and Nifmes, every one I converfed with reprefented that vale as the most fruitful in France. Olives and mulberries, as well as vines, render it very productive; but in point of soil (the only circumstance I consider at present,) much the greater part of it is inferior to all I have named. The Bas Poitou, as I was informed by a person who resides in it, is of a fertility that deserves to be classed with the richest soils of France, extending eighteen leagues by 12, or 216 square leagues, which, at 5,786 arpents per league, are 249,776 arpents. 100,000 arpents of rich marshes have been drained there. Being also informed at Nantes, that there was a very rich track to the S. of the Loire, in the quarter of Bourgneus and Macheoul, I have extended the region of good land to that river, as

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The narrow plain of Alface, the whole fertile part of which hardly exceeds the furface of one thousand square miles, must be classed among the richest soils of France. It refembles Flanders a good deal, though inferior to that province. It confifts of a deep rich fandy loam, both moist and friable, equal to the large production of all forts of crops. A more celebrated district is the Limagne of Auvergne, a flat and chiefly a calcareous vale, furrounded by great ranges of volcanic mountains. It is certainly one of the finelt foils in the world. It commences at Riom; the plain there is of a beautiful dead level of white calcareous loam, the whole furface of which is a real marl, but so mixed with bumus as to be of prime fertility. The French naturalists, that have examined it, affert the depth to be twenty feet of beds of earth, formed of the ruins of what they ftyle the primitive (granite) and volcanized mountains. At Isloire, Dr. Bres shewing me his farm, in an inferior part of the Limagne (for the best of it reaches no farther than from Riom to Vaires, which is fearcely more than twenty miles), made me observe, that the river had, in all probability, formed the whole plain, as it was adding rapidly to his land, and had given him a depth very perceptible in a few years, having buried the gravelly shingle of its bed, by depositing a rich surface of fandy mud. The vale here, on the banks, is feven or eight feet deep of rich brown fandy loam. On the contrary, there are philosophers who contend for the whole having been a lake. The mountains that furround this vale are various. The white argillaceous frone, in the hills between Riom and Clermont, is calcareous. The volcanic mountains are found to be better. than the others, except in the case of tusa or cinders, which are so burnt as to be good for nothing. The calcareous and clayey ones good, and the bafaltes decomposed and become clay excellent. Their base is commonly granite. The calcarcous fandy stones, and the argillaceous calcareous earths are heaped on them by the action of volcanoes, according to the theory of the French philosophers. The fertility that results from the volcanic origin of mountains, has been often remarked, and especially in the case of Ætna; the same sact appeared in many tracts of country as I passed from Le Puy to Montelimart, where many confiderable mountains are covered with beautiful chefnuts, and various articles of cultivation, which in diffricts not volcanic are wafte, or in a great measure useless.

I have now noticed all the diffricts of France, which, to my knowledge, are of any remarkable fertility: they amount, as it will be shown more particularly in another

place, to above twe ty eight millions of English acres.

Of the other provinces, Bretagne is generally gravel, or gravelly fand, commonly deep, and on a gravelly bottom, of an inferior and barren nature, but in many places on fand flone rock. I tried various specimens, but found none calcareous; and having

[.] Der Canayx de Navig par M. de la Lande, p. 391.

feen a ship at Morlaix unloading lime-stone from Normandy, I may conclude, that the fact does not contradict the conclusion which I drew from the eye. All that I saw in the two provinces of Anjou and Maine are gravel, fand, or flone—generally a loamy fand or gravel; some impersect schistus on a bottom of rock; and much that would in the west of England be called a stone brash, and that would do excellently well for turnips: they have the friability, but want the putrid moillure and fertile particles of the better loams. Immense tracks, in both these provinces, are waste, under ling, fern, furze, &c. but the foil of these does not vary from the cultivated parts, and, with cultivation, would be equally good. Touraine is better; it contains some confiderable diftricts, especially to the south of the Loire, where you find good mixed sandy and gravelly loams on a calcareous bottom; confiderable tracks in the northern part of the province are no better than Anjou and Maine; and, like them, it is not without its heaths and wastes. Sologne is one of the poorest and most unimproved provinces of the kingdom, and one of the most singular countries I have seen. It is flat, consisting of a poor fand or gravel, every where on a clay or marl bottom, retentive of water to fuch a degree, that every ditch and hold was full of it: the improvement of fuch a country is fo obviously effected on the easiest principles, that it is a satire on the French government. and on the individuals who are owners or occupiers of estates in this province, to see it remain in fuch a miferable condition. Berry is much better, though both fandy and gravelly; but good loams, and fome deep, are not wanted in fome districts, as that of Chateauroux, on quarries, and near Vatan on calcareous ones. La Marche and Limofin confift of friable fandy loams; fome on granite, and others on a calcareous bottom. There are tracts in these provinces that are very ferrile; and I saw none that should be esteemed steril. Of the granite they distinguish two forts; one hard, and full of micaceous particles; the grain rather coarfe, with but little quartz, hardening in the air in masses, but becoming a powder when reduced to finall pieces; - this is used for building. The other fort is in horizontal strata, mixed with great quantities of spar, used chiefly for mending roads, which it does in the most incomparable manner. I was assured at Limoges, that, on the hard granite, there grow neither wheat, vines, nor chefnuts; but upon the other kind, those plants thrive well: I remarked, that this granite and chesnuts appeared together on entering Limofin; and that, in the road to Touloufe, there is about a league of hard granite without that tree. The rule, however, is not general; for fo near as to the S. of Souilac, chefnuts are on a calcareous foil. Poitou confifts of two divisions, the upper and the lower; the last of which has the reputation of being a much richer country, especially the grass lands on the coast. The foil of the upper division is generally a thin loam, on an imperfect quarry bottom -a fort of stone-brash; in fome tracts calcareous: it must be esteemed a poor soil, though admirably adapted to various articles of cultivation. I have already observed, that all I saw of Angoumois is chalk, and much of it thin and poor. Those parts of Guienne and Gascoign, not included in the rich vale of the Garonne, of which I have already spoken, muit be considered in respect of foil as poor. The landes (heaths of Bourdeaux,) though neither unproductive, nor unimproveable, are in their present state to be classed amongst the worst foils of France. I have been affured, that they contain two hundred leagues square; and the roots of the Pyrenees are covered with immense wastes, which demand much industry to render profitable. Roussillon is in general calcareous; much of it flat and very stoney, as well as dry and barren: but the irrigated vales are of a most exuberant fertility. The vast province of Languedoc, in productions one of the richest of the kingdom, does not rank high in the scale of foil: it is by far too stoney: - I take seveneighths of it to be mountainous. I travelled near four hundred miles in it, without fee. the

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ing any thing that deserved the name of an extensive plain, that of the Garonne, already mentioned (part of which extends within the limits of Languedoc), alone excepted. The productive vale, from Narbonne to Nilmes, is generally but a few miles in breadth; and confiderable waltes are feen in most parts of it. Many of the mountains are productive, from irrigation, as I have observed too in the volcanic territory of the Vivarais. Some parts of the vale are however very rich; and indeed there are few finer foils in France than what I saw near the canal, in going from Beziers to Carcassonne. A rich mellow loam, tenacious, and yet friable; in fome states the particles adhere into clods; in others they recede and melt with friability. Provence and Dauphine are mountainous countries, with the variation of some levely plains and vallies, which bear a very inconsiderable proportion to the whole. Of these two provinces, the former is certainly the drieft, in point of foil, in the kingdom. Rock and quarry-land, with fandy gravels, abound there; and the course of the Durance, which in some countries would be a fine vale, is so ruined by fand and shingle, that, in a moderate calculation, above 130,000 acres have been destroyed, which would have been the finest soil in the country, if it had not been for that river. All I faw in both the provinces is calcareous; and I was informed, that the greater part of the mountains of Provence are fo. These, towards Barcelonette, and in all the higher parts of the province, are covered with good grass, that feeds a million of emigrating sheep, besides vast herds of cattle. With such a foil, and in such a climate, a country must not be thought unproductive because The vales which I faw are in general fine: that of the Rhone at Loriol, in Dauphiné, is rich, - an admirable fandy clay, five or fix feet deep, on a bed of blue marl with many stones in it. But more to the S. from Montelimart to Orange, this great river passes through soils much inferior. The north plain of this province, as we go from Savoy to Lyons, confilts much of a good deep red loam, on a gravel bottom. The county of Venaisin, or district of Avignon, is one of the richest in the kingdom. Its admirable irrigation, is, of itself, sufficient to make it appear so; but I found the soil to confift of rich deep loam, with white and calcareous clays. The whole coast of Provence is a poor stony foil, with exceptions of very finall spaces under happier circum-About Aix, the land is all calcareous, even the clays that are red and ferru-This province, however, contains one of the most fingular districts in the kingdom, namely, that of the Crau, which is a stony plain to the S. E. of Arles, not containing less than 350 square miles, or 224,000 acres. It is absolutely covered with round stones of all sizes, some of which are as large as a man's head. The soil under them is not a fand, but appears to be a kind of cemented rubble of fragments of stone, with a small mixture of loam. The naturalist who has described this province, says, they are of a calcareous nature, with neither the grain nor texture of flint; in some quartzose molecules predominate-and others are metallic *. Vegetation is extremely thin, as I shall mention more particularly when I treat of the pasturage of sheep in France.

The Lyonois is mountainous, and what I saw of it is poor, stony, and rough, with much waste land. In passing from Lyons to Moulins, it is, near Roanne, on the limits of the province, before the gravelly plain of the Loire commences, the same which M. La Metherie calls the calcareous plain of Montbrisson.

Auvergne, though chiefly mountainous, is not a poor province; the foil, for a hilly country, is in general above mediocrity, and the highest mountains feed vast herds of cattle, which are exported to a confiderable amount. Befide a variety of volcanic foils, Auvergne is covered with granite and gravelly and fandy loams.

[•] Hist. Nat. de la Povence, 8vo. 3 tom. 1782. tom. 1. p 290. RR 2

The Bourbonnois and Nivernois, form one vast plain, through which the Loire and Allier pass; the predominant foil, in much the greater part, is gravel; I believe commonly on a calcareous bottom, but at confiderable depths. Some tracks are fandy, which are better than the gravels; and others are very good frial-le fandy loams. The whole, in its present cultivation, must be reckoned amongst the most unproductive provinces of the kingdom, but capable of as great improvement, by a different management as any district in France.

Burgundy is exceedingly diversified, as I found in crossing it from Franche Compté to the Bourbonnois by Dijon, I saw the best of it; that line is through fundy and gravelly loams; some good vales, some mountains, and some poor granite soils. The subdivision of the province called Bresle, is a miserable country, where the ponds alone, mostly on a white clay or a marl, amount, as it is afferted by an inhabitant *, to sixty-six square leagues of two thousand toises, not much less than two hundred and fifty thousand

acres. This is credible from the appearance of them in the map of Cassini.

Franche Compté abounds with red ferruginous loams, fchiftus, gravel, with lime-ftone in the mountains very common; and I should remark, that all the stones I tried, some of which were from quarries between Befort to Dole, effervesced with acids. From Besauçon to Orechamps the country is rocky, quite to the surface much lime-ftone; a reddish brown loam on rock; with iron forges all over the country. The

whole province is very improveable.

Loraine is poor in foil; from St. Menehould to the borders of Alface I faw fearcely any other than stony soils, of various denominations; most of them would in England be called stone-brash, or the broken and triturated surface of imperfect quarries, mixed by time, forest, and cultivation, with some loam and vegetable mould—much is calcareous. There are indeed districts of rich, and even deep friable sandy loams; but the quantity is not considerable enough to deserve attention in a general view. I have already remarked, that the predominant seature of Champagne is chalk; in great tracks it is thin and poor; the southern part, as from Chalons to Troyes, &c. has from its poverty, acquired the name of pouilleux, or loufy. The appropriating of such land to saintsin is little known there.

I have now made the tour of all the French provinces, and shall in general observe, that I think the kingdom is superior to England in the circumstance of soil. The proportion of poor land in England, to the total of the kingdom, is greater than the similar proportion in France; nor have they any where such tracts of wretched blowing sand, as are to be met with in Norfolk and Sussolk. Their heaths, moors, and wastes, not mountainous; what they term lande, and which are so frequent in Bretagne, Anjou, Maine, and Guienne, are infinitely better than our northern moors; and the mountains of Scotland and Wales cannot be compared, in point of soil, with those of the Pyrences, Auvergne, Dauphiné, Provence, and Languedoc. Another advantage almost inestimable is, that their tenacious loams do not take the character of clays, which in some parts of England are so stubborn and harsh, that the expence of culture is almost equal to a moderate produce. Such clays as I have seen in Sussex, I never met with in France. The smallness of the quantity of rank clay in that kingdom, is indeed surprising.

Observations, Expériences, & Memoires sur L'Agriculture; par M. Varenne de Fenille, 8vo. 1789.

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The chief distinction that marks the faces of different countries, is that of being mountainous or level. In the language, as well as the ideas common in France, mountains are fpoken of, to which we should give no other appellation than that of hills: the tracks really mountainous in that kingdom are to be found in the S. only. It is four hundred miles S. of Calais before you meet with the mountains of Auvergne, which are united with those of Languedoc, Dauphinee, and Provence, but not with the Pyrenees, for I crossed the whole S. of France, from the Rhone to the ocean, either by plains or ranges of inconfiderable hills. The mountains of Voge, in Loraine, deferve, perhaps, that name, but yet are not to be ranked with the fuperior elevations I have noticed. The inequalities of all the rest of the kingdom are sufficient to render the prospects interesting, and to give variety to the face of the country, but they deserve not to be called mountains. Some of the hilly and mountainous tracks of France receive a very confiderable beauty from the rich and luxuriant verdure of chesnuts. To those who have not viewed them, it is not easy to believe how much they add to the beauty of the Limofin, the Vivarais, Auvergne, and other districts where they are common.

There is no doubt that the Pyrenees are more striking than all the other mountains of France; I have described them so particularly in the Journal, that I would only observe in general here, that their verdure, their woods, their rocks, and their torrents have all the characters of the sublime and beautiful. I saw nothing among the Alps that offered such pleasing scenes as those of the northern parts of Dauphine; which, however, are less varied than those in the neighbourhood of Chambery so abounding in landscapes. According to every account, the course of the Iser is a scene of perpetual beauty. The Vivarais, and part of Velay, are most romantic.

Of the great rivers of France I prefer the Seine, which is every where an agreeable object. I should suppose the reputation of the Loire must have originated from perfons who either had never seen it at all, or only below Angers; where in truth it merits every cloge. From that city to Nantes it is, probably, one of the sinest rivers in the world, the breadth of the stream, the islands of woods, the boldness, culture, and richness of the coast, all conspire, with the animation derived from the swelling canvass of active commerce, to render that line eminently beautiful; but for the rest of its immense course, it exhibits a stream of sand; it rolls shingle through vales instead of water, and is an uglier object than I could possibly have conceived, unless I had actually seen it. The Garonne receives more beauty from the country through which it slows than it confers upon it; the slat banks, fringed with willows, are destructive of beauty. I am not equally acquainted with the Rhone; where I saw it, from Montelimart to Avignon, and again at Lyons, it does not interest me like the Seine. The course of the Soane is marked by a noble track of meadows.

In regard to the general beauty of a country, I prefer Limosin to every other province in France. The banks of the Loire below Angers, and those of the Seine, for two hundred miles from its mouth, superior, undoubtedly, in point of rivers, the capital feature of the country; but the beauty of the Limosin does not depend on any particular feature, but the result of many. Hill, dale, wood, inclosures, streams, lakes, and scattered farms, are mingled into a thousand delicious landscapes, which set off every where this province. Inclosures, which add so much ornament to the face of a

country, would furnish observations, but I must treat of them expressly in a more im-

portant view.

Of the provinces of the kingdom, not already named, none are of such singular features as to demand particular attention. The beauties of Normandy are to be found on the Seine, and those of Guienne on the Garonne. Bretagne, Maine, and Anjou have the appearance of deserts; and though some parts of Touraine are rich and pleasing, yet most of the province is desicient in beauty. The fertile territories of Flanders, Artois, and Alsace are distinguished by their utility. Picardy is uninteresting. Champagne in general, where I saw it, ugly, almost as much so as Poitou. Loraine, and Franche Compté, and Bourgogne are sombre in the wooded districts, and want chearfulness in the open ones. Berry and La Marche may be ranked in the same class. Sologne merits its epithet, triste. There are parts of the Angoumois that are gay, and consequently pleasing.

It may be useful to those who see no more of France than by once passing to Italy, to remark, that if they would view the sinest parts of the kingdom, they should land at Dieppe and follow the Scine to Paris, then take the great road to Moulins, and thence quit it for Auvergne, and pass to Viviers, on the Rhone, and so by Aix to Italy. By such a variation from the frequented road, the traveller might suffer for want of good inns, but would be repaid by the sight of a much siner and more singular country than the common road by Dijon offers, which passes, in a great measure, through the worst

part of France.

CHAP. III .- Of the Climate of France.

OF all the countries of Europe there is not, perhaps one that proves the importance of climate, fo much as France. In the natural advantages of countries, it is as effential as foil itself; and we can never attain to an idea tolerably correct, of the prosperity and resources of a country, if we do not know how clearly to ascertain the natural advantages or disadvantages of different territories, and to discriminate them from the adventitious effects of industry and wealth. It should be a principal object with those who travel for the acquisition of knowledge, to remove the vulgar prejudices which are sound in all countries among those who, not having travelled themselves, have built their in-

formation on infufficient authorities. France admits a division into three capital parts; 1, of vines; 2, of maize; 3, of olives-which plants will give the three districts of, 1. the northern, where vines are not planted; 2, the central, in which maize is not planted; 3, the fouth, in which olives, mulberries, vines, and maize are all found. The line of feparation between vines and no vines, as I observed myself, is at Coucy, ten miles to the N. of Soissons; at Clermont, in the Beauvoisois; at Beaumont, in Maine; and Herbignac, near Guerande, in Bretagne. Now there is fomething very remarkable in this, that if you draw a strait line on the map from Guerande to Coucy, it passes very near both Clermont and Beaumont; the former of which is a little to the north of it, and the latter, a little to the fouth. There are vines at Gaillon and La Roche Guyon, which is a little to the N. of this line; there are also some near Beauvais, the most remote from it which I have feen; but even this diffance is inconfiderable; and the melancholy spectacle of the vintage of 1787, which I faw there in the midft of inceffant rains, is a proof that they ought to have nothing to do with this branch of culture: and at Angers I was informed, that there are no vines, or next to none, between that place and Laval and Mayenne. Having made this remark on the vine climate of France, I wished to know

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how far the fact held true in Germany; because if the circumstance arose from a difference of climate, it ought, by parity of reason, to be confirmed by vines in that country being found much farther north than in France. This happens precifely to be the cale; for I find, by a late author, that vines in Germany are found no farther north than lat. 52 . The meeting with these in that latitude is a sufficient proof of the fact in question, fince in France their limit is at 491. The line, therefore, which I have drawn as the boundary of vines in France, may be continued into Germany, and will probably be found to afcertain the vine climate in that country, as well as in France. The line of feparation between maize and no maize is not less fingular; it is first feen on the western side of the kingdom, in going from the Angoumois and entering Poitou, at Verac, near Ruffec. In crofling Loraine, I first met with it between Nancy and Luncville. It is deferving of attention, that if a line is drawn from between Nancy and Luneville to Ruffec, that it will run nearly parallel with the other line that forms the feparation of vines: but that line across the kingdom, is not formed by maize in so un. broken a manner, as the other by vines; for in the central journey, we found it no farther north than Douzenach, in the S. of the Limofin; a variation, however, that does not affect the general fact. In crofling from Alface to Auvergne, I was nearest to this line at Dijon, where is maize. In crofling the Bourbonnois to Paris, there is an evident reason why this plant should not be found, which is the poverty of the soil, and the unimproved husbandry of all that country, being universally under fallow, and rye, which yields only three or four times the feed. Maize demands richer land or better management. I faw a few pieces for far north as near La Fleche, but they were for miferably bad, as evidently to prove that the plant was foreign to that climate. In order to give the reader a clearer idea of this, I have annexed a map, explaining, at one coup d'ail, these zones or climates, which may be drawn from the productions of France. -The line of olives is pretty nearly in the fame direction. In travelling fouth from Lyons, we see them first at Montelimart; and in going from Beziers to the Pyrenees, I loft them at Carcassonne: now, the line on the map drawn from Montelimart to Carcassonne, appears at once to be nearly parallel with those of maize and vines. Hence we may apparently determine, with fafety, that there is a confiderable difference between the climate of France in the eastern and western parts: that the eastern side of the kingdom is two and a half degrees of latitude hotter than the western, or if not hotter, more favourable to vegetation. That these divisions are not accidental, but have been the refult of a great number of experiments, we may conclude from these articles of culture in general gradually declining before you quite lofe them. On quitting the Angoumois, and entering Poitou, we find maize dwindling to poor crops, before it ceases to be cultivated; and in going from Nancy to Luneville, I noticed it in gardens, and then but in small pieces in the fields, before it became a confirmed culture. I made the same remark with respect to vines. It is very difficult to account for this fact; it feems probable that the climate is better when remote from the sea, than near it, which is contrary to numerous other facts; and I have remarked, that vines thrive even in the sea air, and almost fully exposed to it, at the mouth of the river Bayonne, and in Bretagne. A great many repeated observations must be made, and with more attention than is in the power of a traveller before such a subject, apparently very curious, can be thoroughly afcertained. In making such inquiries as these, a general culture is alone to be regarded: vines will grow in England; I have maize now on my own farm-and I have feen it at Paris; but this is not the question; for it turns folely on

De la Mona chie Prufficane, par M. le Compte de Mirabeau. tom. 11. p. 158.

the climate being fo well adapted to fuch articles as to enable the farmer to make them

a common culture.

Of the northern climate of France I may remark, that though vines will yield little profit in it for wine, yet there is a strong distinction, in respect of heat, between it and England, at the fame time, that much of it is, I believe, to the full as humid as the S. and E. of England. The two circumstances to be attended to in this inquiry are, the quantity of fruit and the verdure and richnels of pultures. In regard to heat, we must attend neither to the thermometer nor to the latitude, but to the vegetable productions. I travelled in the fruit feafon through Artois, Picardy, Normandy, Bretagne, Anjou, and Maine, and I found at every town, I might properly fay at every village, such a plenty of fruit, particularly plumbs, peaches, late cherries, grapes, and inclons, as never can be feen in England in the very hottest summers. The markets of all the towns, even in that poor and unimproved province of Bretagne, are supplied with these in a profusion of which we have no idea. It was with pleasure I walked through the market at Rennes. If a man were to fee no other in France, lighting there from an English balloon, he would in a moment pronounce the climate to be totally different from that of Cornwall, our most southerly county, where myrtles will stand the winter abroad; and from that of Kerry, where the arbutus is fo ac-climated, that it feems indigenous, though probably brought from Spain by the original inhabitants of the country. Yet in this province of Bretagne I faw no maize nor mulberries, and, except in the corner I have mentioned, it has no vineyards. Paris is not supplied with melons from provinces to the S., but from Harfleur, at the mouth of the Seise.

For the humidity of the climate, I may quote the beautiful verdure of the rich paftures in Normandy, which are never irrigated. And I was a witness to three weeks of fuch rain at Liancourt, four miles only from Clermont, as I have not known, by many degrees, in England. To the great rains in the N. of France, which render it disagreeable, may be added the heavy snows and the severe frosts, which are experienced there to a greater degree than in the S. of England. I am assured that the N. of Europe has not known a long and sharp frost, which has not been much severer at

Paris than at London.

The central division that admits vines without being hot enough for maize, I confider as one of the finest climates in the world. Here are contained the province of Touraine, which, above all others, is most admired by the French; the picturefque province of Limofin; and the mild, healthy, and pleafant plains of the Bourbonnois; perhaps the most eligible countries of all France, of all Europe, as far as foil and climate are concerned. Here you are exempt from the extreme humidity which gives verdure to Normandy and England; and yet equally free from the burning heats which turn verdure itself into a russet brown in the S.; no ardent rays that oppress you with their fervor in fummer; nor pinching tedious froils that chill with their feverity in winter; a light, pure, elaftic air, admirable for every conflitution except confumptive ones. But at the fame time that I must commend these central provinces of France, for every circumstance of atmosphere that can render a country agreeable to inhabit, I must guard the reader against the idea of their being free from great inconveniences; they are certainly fubject to those in relation to agriculture, which are heavily felt by the farmer. They are subject, in common with the olive district, to violent storms of rains and what is worfe, of hail. Two years ago, a fform of hail fwept a track of defolation in a belt across the whole kingdom, to the damage of several millions of our money. Such extended ruin is not common, for, if it were, the finell kingdoms would be laid walle; but no year ever paffes without whole parishes fuffering to a degree of which b

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we have no conception, and on the whole to the amount of no inconfiderable proportion of the whole produce of the kingdom. It appears, from my friend Dr. Symond's paper on the climate of Italy *, that the mischief of hail is a lful in that country. I have heard it calculated in the S. of France, that the damage in some provinces amounted to one-tenth of the whole produce of them upon an average. A few days before my arrival at Barbefieux, there had fallen, at the Duke de la Rochefoucauld's feat in the Angoumois, and fome neighbouring parifhes, a shower of hail that did not leave a fingle grape on the vines, and cut them to feverely, as to preclude all hope of a crop the year tollowing, and allowed no well-founded expectation of any beneficial produce even the third year. In another place, the geefe were all killed by the fame ftorm; and young colts were fo wounded that they died afterwards. It is even afferted, that men have been known to be killed by hail, when unable to obtain any thelter. This from destroyed a copic of the duke's, that was of two years growth. With such effects, it must be obvious to every one, that all forts of corn and pulse must be utterly destroyed. At Pompinian, between Montauban and Toulouse, I was witness to fuch a shower of rain as never fell in Britain; in that rich vale, the corn, before the ftorm, made a noble appearance; but imagination can hardly picture a more entire destruction than it poured over the whole; the finest wheat was not only beaten slat to the ground, but streams of liquid mud covered it in many places, in a manner that made all expectation of recovery hopeless. These hasty and violent showers, which are of little confequence to a traveller, or to the refidence of a gentleman, are dreadful feourges to the farmer, and immense drawbacks from the mass of national products.

A circumstance of less consequence, but not undescrying attention, is the frosts which happen in the fpring. We know in England how injurious these are to all the fruits of the earth, and how much they are supposed to damage even its most important product. Towards the end of May 1787, I found all the walnut trees with leaves turned quite black by them, S. of the Loire; and farther to the S., at Brive, we no fooner faw fig-trees, for the first time scattered about the vineyards, than we remarked them bound about with straw to defend them from the frosts of June. Still more to the S., about Cahors, the walnut trees were black on the 10th of June by frosts, within a fortnight; and we were informed of rye being in some years thus killed; and that rarely there is any spring month secure from these unseasonable attacks. In the N. E. quarter I found, in 1789, the frost of the preceding winter had made a sad havock amongst the walnut trees, most of which were killed in Alface, and the dead trees made a strange figure in summer; they were left in expectation of their shooting again, and some few did. From Autun in Burgundy, to Bourbon Lancey, the broom was all killed. Spring frosts were also complained of as much as on the other side of the kingdom. About Dijon, they faid that they have them often late, and they damage or destroy every thing. And all the countries within reach of the mountains of Voge are affected by the fnow that falls upon them, which was in 1789, on the 29th of June. This renders the vineyard an uncertain culture. Perhaps it may arife from the late frosts in the spring, that we meet with so few mulberries in France N. of the olive diftrict. The profit of that tree is very great, as I shall explain fully in another place; yet the districts, where they are found in France, are very inconfiderable, when compared with the extent of the whole kingdom. It has been conceived in England, that the mildew is owing to late frosts; when I found myself in a region where mye was sometimes thus killed in June, and where every walnut hung with black, I naturally en-

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^{*} Annals of Agriculture, vol. iii. p. 137.

quired for that distemper, and sound in some places, near Cahors for instance, that their wheat was perfectly exempt from that malady in many springs, when other plants suffered the most severely; and we met even with farmers whose lands were so little subject to the distemper that they hardly knew it. This should seem to set aside the theory of frosts being the cause of that malady. As spring frosts are as mischievous in France as they can be with us, so also are they troubted with autunnal ones earlier than is common with us. On the 20th of September 1757, in going on the S. of the Leire, from Grambord to Orleans, we had so smart a one, that the vines were burt by it; and there had been, for several days, so cold a N. E. wind, yet with a bright sun,

that none of us flirred abroad without great coats.

The olive-climate contains but a very inconfiderable portion of the kingdom, and of that portion, not in one acre out of fifty is this tree cultivated. Several other plants, befide the olive, mark this climate. Thus at Montelimart, in Dauchine, befides that tree, you meet with, for the first time, the pomegranate, the arbor judæ, the paliurus, figs, and the evergreen oak; and with thefe plants, I may add also that detettable animal the mosquito. In crosling the mountains of Auvergne, Velay, and Vivarais, I met, between Pradelles and Thuytz, mulberries and flies at the fame time; by the term flies, I mean those myriads of them, which form the most disagreeable circumstance of the fouthern climates. They are the first of torments in Spain, Italy, and the olivedistrict of France: it is not that they bite, sting, or hurt, but they buz, tcaze, and worry: your mouth, eyes, ears, and nofe, are full of them: they fwarm on every eatable, fruit, fugar, milk, every thing is attacked by them in fuch myriads, that if they are not driven away inceffantly by a person who has nothing else to do, to eat a meal is impossible. They are, however, caught on prepared paper, and other contrivances, with fo much eafe, and in fuch quantities, that were it not from negligence they could not abound in fuch incredible quantities. If I farmed in those countries, I think I should manure four or five acres every year with dead flies. Two other articles of culture in this climate, which deferve to be mentioned, though too inconfiderable to be a national object, are capers in Provence, and oranges at Hiercs. The latter plant is fo tender, that this is supposed to be the only part of France in which it will thrive in the open air. The whole of Rouffillon is to the fouth of this, yet none are to be found there. I went to Hieres to view them, and it was with pain I found them almost, without exception, to damaged by the frost, in the winter of 1788, as to be cut down, fome to the ground, and others to the main item. Vail numbers of olives were in the fame fituation throughout the whole olive-diffrict, and abundance of them abfolutely killed. Thus we find, that in the most foutherly part of France, and even in the most sheltered and fecure fituations, fuch fevere frofts are known as to deflroy he articles of common cultivation.

In the description I took of the climate of Provence, from Mons. le President, Baron de la Tour d'Aigues, he informed me, that hail, in some years, does not break glass; but it was mentioned as an extraordinary thing. The only seasons in which is to be expected rain with any degree of certainty, are the equinoxes, when it comes violently for a time. No dependence for a fingle drep in June, July, or August, and the quantity always very small; which three months, and not the winter ones, are the pinching season for all great cattle. Sometimes not a drop falls for fix months together. They have white frosts in March, and sometimes in April. The great heats

[•] A writer, who has been criticifed for this affection, was therefore right:—" Telle eff la position des provinces du midi on l'on reste fouvent, six mais entiers, sans voir tomber une seule goutte d'eau," Gorps Complet d'Agri. tom vici p 56.

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are never till the 15th of July, nor after the 15th of September. Harvest begin one 24th, and ends July 15th—and Michaelmas is the middle of the vintage. In my years no fnow is to be feen, and the frosts not fevere. The spring is the worst feat in in the year, because the went de bize, the mastrale of the Italians, is terrible, and suffi cient, in the mountains, to blow a man off his horfe; it is also dangerous to the health, from the fun, at the fame time, being both high and powerful. But in December, January, and February, the weather is truly charming, with the bize very rarely, but not always free from it; for on the 3d of January 1786, there was so furious a machinale, with fnow, that flocks were driven four or five leagues from their pastures; numbers of travellers, thepherds, theep and affes in the Cran perified. Five thepherds were conducting eight hundred theep to the butcheries at Marfeilles, three of whom, and almost all the sheep, perished *. To make a residence in these provinces agreeable, a man should also avoid the great summer heats. For during the last week in July, and fome days in August, I experienced such a heat at Carcassonne, Mirepoix, Pamiers, &c. as rendered the least exertion, in the middle of the day, oppressive; it exceeded any thing I felt in Spain. It was impossible to support a room that was light. No comfort but in darkness; and even there rest was impossible from myriads of slies †. It is true, such heats are not of long duration; if they were so, nobody, able to quit the country, would reside in it. These climates are disagreeable in spring and summer, and delicious in winter only. In the Bourbonnois, Limosin, and Touraine, there is no vent de bize. On the mountains above Tour d'Aigues, are chiefly found lavendula thymus—ciftus rosea—ciftus albidus—foralia bitumina—buxus semper virens—quercus ilex-pinus montana-rofmarinus officinalis-rhamnus cathartica-geniftis montis ventofa—genista Hispanica—juniperus Phonicia—satureja montana—bromus sylvatica, &c. In the stubbles of all the olive-district, and in every waste spot are found centaurea calycitropa-centaurea folfitialis,-alfo the eryngium campeffrum, and the eryngium amethystinum: - they have fown in Provence the datura strimonium, which is now has bituated to the country. In the mountains, from Cavalero to Frejus, and also in that of Estrelles, the lentiscus-myrtus-arbutus-lavendula-cistus-and laurustinus.

Upon a general view of the climate of France, and upon comparing it with that of countries, not fo much favoured apparently by nature, I may remark, that the principal superiority of it arises from adapting so large a portion of the kingdom to the culture of the vine; yet this noble plant is most unaccountably decried by abundance of writers, and especially by French ones, though the farmer is enabled to draw as extenfive a profit from poor and otherwife barren, and even almoft perpendicular rocks, as from the richest vales. Hence immense tracks of land may be ranked in France among the most valuable, which in our climate would be absolutely waste, or at least applied to no better use than warrens or sheep walks. This is the great superiority which climate gives to that kingdom over England:—of its nature and extent, I shall treat

fully under another head.

The object of the next importance is peculiar to the olive and maize districts, and confilts in the power of having, from the nature of the climate, two crops a-year on

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[•] Traité de l'Olivier, par M. Couture, ii. tom. 8vo. Aix, 1786. tom. i. p. 79. † I have been much surprised, that the late learned Mr. Harmer should think it odd to find, by writers who treated of fouthern climates, that driving away flies was an object of importance. Had he been with me in Spain and in Languedoc, in July and August, he would have been very far from thinking there was any thing odd in it. Observ. on divers Passages of Scripture, vol. iv. p. 150.

vast tracks of their arable land: an early harvest, and the command of plants, which will not thrive equally well in more northern climates, give them this invaluable advantage. We see wheat stubbles left in England, from the middle of August, to yield a few shillings by sheep, which, in a hotter climate, would afford a second crop, yielding food foreman, fuch as millet, the fifty day maize (the cinquantina of the Italians' &c.; or prove a better feafon for turnips, cabbages, &c. than the common feafon for them here. In Dauphiné, I faw buck-wheat in full bloffom the 23d of August, that had been fown after wheat. I do no more than name it here, fince, in another place, it must be examined more particularly. Mulberries might in France be an object of far greater importance than they are at prefent, and yet the spring frosts are fatal impediments to the culture: that this plant must be considered for all important purposes, as adapted only to fouthern climates, appears from this, that Tours is the only place I know in France, north of the maize climate, where they are cultivated for filk with any fuccels; confiderable experiments have been made (as I shall shew in the proper place) for introducing them into Normandy and elfewhere, but with no fuccefs; and the force of this obfervation is doubled, by the following fact - that they fucceed much better in the olive climate than in any part of the kingdom. But that they might be greatly extended, cannot for a moment be doubted. In going fouth, we did not meet with them till we came to Caufade, near Montauban. In returning north, we faw them at Auch only -A few at Aguillon, planted by the Duke—the promenade at Poitiers planted by the intendant—and another at Verteul, by the Duke d'Anville; all which are experiments that have not been copied, except at Auch. But at Tours there is a small district of them. In another direction, they are not met with after Moulins, and there very few. Maize is an object of much greater confequence than mulberries; when I give the courses of the French crops, it will be found that the only good husbandry in the kingdom (fome finall and very rich diffricts excepted) arifes from the poffession and management of this plant. Where there is no maize, there are fallows; and where there are fallows, the people starve for want. For the inhabitants of a country to live upon that plant, which is the preparation for wheat, and at the fame time to keep their cattle fat upon the leaves of it, is to possess a treasure, for which they are indebted to their climate. The quantity of all the common forts of fruits, which, through the greater part of France, is such as to form a considerable object in the sublistence of the great mass of people, is a point of more consequence than appears at first fight. To balance these favourable circumstances, other countries, not so happily situated (especially England) have advantages of an opposite nature, which are very material in the practice of their agriculture: that humidity of atmosphere, which the French provinces north of vines enjoy—which England has in a greater degree, and Ireland fill more, and which is better marked by the hygrometer than by the rain gage, is of fingular importance in the maintenance of cattle by pasturage, and in adapting the courses of crops to their support. Artificial grasses, turnips, cabbages, potatoes, &c. thrive best in a humid climate. It would take up too much room here fully to explain this; to mention it will be fufficient for those who have reflected on fimilar subjects. From a due attention to all the various circumstances that affect this question, which, relatively to agriculture, is the best climate, that of France, or that of England?—I have no hesitation in giving the preference to France. I have often heard, in conversation, the contrary afferted, and with fome appearance of reason-but I believe the opinion has arisen more from confidering the actual state of husbandry in the two countries, than the difinch properties of the two climates. We make a very good use of our's; but the French are, in this respect, in their infancy, through more than half the kingdom *.

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CHAP. V .- Of the Population of France.

AS the subject of population is best treated by an inquiry into the industry, agriculture, division of landed property, &c. I shall at present merely lay before the reader fome facts collected with care in France, that afford useful data for political arithmeticians. Monf. l'Abbé Expilly, in his Dictionnaire de la France, makes the number 21,000,000. And the Marqu's de Mirabeau † mentions an enumeration of the kingdomin 1755; total 18,107,000. In Normandy1,665,200, and in Bretagne 847,500. Monf. de Buffon, in his Hifteire Naturelle, affigns for the population of the kingdom 22,672,077. Monf. Mellance, in his Recherches fur la Population, 4to. 1766, gives the details from which he draws the conclusion, that in many towns in Auvergne the births are to the number of inhabitants as 1 to 24 1 3 7 10; the marriages per annum 1 to 114 inhabitants; and families, one with another, composed of 51 14, or 24 families contain 124 inhabitants. In various towns in the Lyonnois, births are to the inhabitants as 1 to 231; the marriages per annum 1 to 111 persons; and families composed 4 4 7 to 1; 80 families contain 381 inhabitants. In various towns in Normandy the births to the inhabitants as 1 to 271 2's; marriages per annum 1 to 114 persons; families are composed of 311 2; 20 represent 76 inhabitants. In the city of Lyons families are composed of 51_{66} ; to represent 316 inhabitants; and there are a few above 24 persons per house in that city. In the city of Rouen families are composed of $6\frac{1}{10}$ persons; and there are $6\frac{1}{3}\frac{1}{11}$ persons per house. At Lyons 1 in 351 dies annually; at Rouen 1 in 27 . Mean life in some parishes in the generality of Lyons 25 years; ditto in the generality of Rouen 25 years 10 months. At Paris 1 in 30 dies annually: a family confifts of 8, and each house contains 241 persons. By comparing the number of births in every month at Paris, for forty years, he found that those in which conception flourifhed most were May, June, July, and August, and that the mortality for forty years was as follows:

April, - May, -	77,803 76,815 72,198	February, December, June,	66,789 60,926 58,272	Months. October, September, November,	Deaths. 54,897 54,339 54,029
January,	69,166				52,479

It should appear from this table, that the influence of the sun is as important to human health as it is to vegetation. What pity that we have not similar tables of cities in all the different latitudes and circumstances of the globe.

^{*} The minute details concerning agriculture are omitted, as, however valuable in themselves, they little accord with the nature of this publication.

^{+ 1.&#}x27; Ami des Hommes. 1760. 5th edit. tom. iv. p. 184.

[†] The committee of Mendieite afferts, that each family in France confifts of five, as each has three children. Cinquieme Rapport, p. 34.

At Clermont Ferrand 1 in 38 dies annually.—At Carcassonne 1 in 22 1.—At Valence 1 in 24! - At Vitry le François 1 in 23! .- At Elbœuf 1 in 29! .- At Loviers 1 in 31! -At Honfleur 1 in 24. -At Vernon 1 in 25. -At Gifors 1 in 29. -At Pont-au-de-Mer 1 in 33.—At Neufchatel 1 in 241.—At Pont l'Eveque 1 in 26.—At le Havre 1 in 35. Upon a comparison in seven principal provinces of the kingdom, population in fixty years has augmented in the proportion of 211 to 196, or a thirteenth. General deduction;—that the number of people in France in 176; was 23,909,400. Monf. Moheau * gives to the best peopled provinces 1700 inhabitants per square league; and to the world 500; the medium 872, at which rate he makes the total 23,500,000, and an increase of a ninth fince 1688. The isle of Oleron is peopled at the rate of 2886 per league, and that of Ré 4205. He also calculates that 1 in 36 dies, and 1 in 26 is born every year. Monf. Necker, in his work de l'Administration des Finances de la France, has the following particulars, which it is also necessary to have in our attention: -Births in the whole kingdom per annum, on an average, of 1776, 77, 78, 79, and 8c, were 963,207: - which, multiplied by 254, the proportion he fixes on, gives 24,802,580 inhabitants in France. He notices the gross error of the aconomistes, in estimating the population of the kingdom at 15 or 16 millions .- A later authority, but given in whole numbers, and therefore not accurate, flates the population of the kingdom at 25,500,000, of which the clergy are supposed to be 80,000, the nobility 110,000, the protestants 3,000,000, and Jews 30,000 t: the committee of imposts affert, that to multiply the births in the cities of France by 30, will give their population with fufficient truth; but for the country not fo high t. The rule of 30 would make the population 28,896,210. But much later than all these authorities, the National Affembly has ordered fuch enquiries to be made into the population of the kingdom, as have produced a much greater degree of accuracy than was ever approached before: this has been done by the returns of taxes, in which all persons, not liable to be charged are entered in what we should call the duplicates; and as the directions for making these lifts are positive and explicit, and no advantage whatever results to the people by concealing their numbers, but on the contrary, in many instances, they are favoured in taxation, by reason of the number of their children, we may surely conclude, that these returns are the fafest guides to direct our calculations. Here follows the detail:

* Recher. fur la Population de la France, 8vo. 1778.

† Pibliotheque de l'Homme Publique, par Mess. de Condorcet, Peysonnel, & le Chapelier, tom iii. \$ Rapsort de Comité d' Impos. sur les Tanes, p. 27.

Etat générale de la Population du Royaume de la France.

					4		10yllume de 111 1			
Nο	Noms des Départes	mens.	Population les villes D'bourgs.	Pop. des vol- lages & des Campagne.	Total de la population.	No.	Noms des Departemens.		Pop, des vil- lages & des Gampagne,	Tital de la population.
1.	L'Ain, -		42,300	251,556	293,866		Brought forward,	2,447,880	10,019,531	12,599,677
_ z]	L'Ame, -		84,800	305,253	392,053	43,	Du l'Oriet,	84,600	185,266	269,866
3-	L'Allier,	-	41,800	203,280	246,080	44,	Du Lot,	55,100	212,900	268,000
4.	Les Hautes Albes,	,	20,500	151,833	181,333	45,	Du Lot & Garonne,	32,230	262,666	308,666
5	Des Balles Alpes,		39,060	130,600	218,666	46,	La Lozerre, -	19.400	176,226	195,626
6	L'Ardeche,	-	24,600	185,533	210,133	47,	De Maine & Loire,	94,000	200,666	294,666
7.	Les Ardennes,	-	62,1∞	113,260	175,360	48,	La Manche, -	63,100	242,566	330,666
8,	L'Arieges,	-	31,400	239,266	170,666	4),	La Marne, .	76,200	206, 166	282,666
	L'Aube,	-	40,100	257,255	1)7.355	50,	La Haute Marne,	36,100	177,293	213,373
101	L'Aude,	·-	48,400	203,120	251,520,	5	La Mayenne, -	7,3,600	248,531	322,133
	L'Aveyron	-	46,500	250,135	296,635	52,	La Meurce, -	6:,900	314,336	380,266
	Les boucnes du Rh	ıûne,	163,200	158,933	321,133	53,	La Meule,	58,100	194,106	252,266
13.	Le Calvados,		105,350	329,850	435,200	54.	Le Morbihan, -	42,400	443,266	4.70,666
14	Le Cantal,	•	39,950	237,385	277,315	55,	La Mozelle, -	67,000	223,133	290,133
	La Charente,	- 1	44,100	224,000	268,160	36,	La Nyevre,	34,500	216,100	2,71,600
16,	La Charente In	féri-	i		- 1	57.	Le Nord,	კრგავი	392,733	568,533
1	eure,	- 1	89,120	279,306	368,426	58,	L'Ode,	53,900	266,100	320,000
17,	Le Ch. r,	- 1	47.,000	218,366	576,260	59,	L'Orne,	57,800	328,333	386,133
18,	La Correzé,	- 1	52,750	221,692	254,442		Du Paris, _	1,50,800	168,533	725-333
19,	La Corfe,	-			132,266	61,	Le Pas de Calais, -	79,600	507,016	586,666
20,	La Côté d'Or,		59,350	367,983	427,333	62,	Le Puy de Dome,	82,550	322,783	405,333
21,	Les Côtés du Nord	١,	27,500	441,166	468,666	63,	Les Hautes Pyrennées,	35,000	122,866	157,866
22.	La Creufe,	-	22,800	244,293	267,093	64,	Les Baffes Pyrennées,	55,4%C	231,465	226,955
23,	La Dordogne,	-	51,900	3535433	405,333	65,	Les Pyrennées Orien-			
24:	Le Doubs,	-	36,500	187,500	224,000		tales, -	31,100	131,033	162,133
25,	La Drome,	-	29,900	194,100	224,000	66,	Le Haut Rhin, -	27,500	276,633	306,123
26,	L'Eure,	- 1	76,600	323,400	400,000	67,	Le Bas Rhin,	90,000	272,366	362,666
27,	L'Eure et Loire,	.	44,350	186,050	2,30,400	68,	Le Rhone & Leire,	215,000	460,440	675,840
28.	Le Finitlerre,	-	63,000	417,000	480,000	69,	La Haute Saonne, -	18,700	231,966	250,666
20,	Du Gard,	-	100,00	124,900	225,600	70,	Saonne & Loire, -	60,100	342,033	402,133
	De la Faute Garon	me,	71,600	182.033	253,653	71,	La Sarte,	66,500	296,106	362,666
	Du Gers,	-	54,000	214,200	268,800	72,	Seine & Oile, -	103,900	214,100	320,000
	La Gironde,	-	200,000	408,000	608,000	7,3,	Le Seine Intérievre,	184,55€	201,316	445,866
	D'Héranit,	- 1	108,700	155,823	264,533	74,	La Seine & Marne,	51,300	293,300	345,600
	L'Ille et Villaine,	- 1	(0,800	439,866	450,666	75,	Des deux Sevres,	16,300	157,033	213,335
	1 Indie.	- 1	10,650	219.750	270,400	76,	La Somme, -	91,600	294,533	380,133
	l'Indre et Loire,	- 1	82,000	267,366	549,866	77,	Le Tarn, -	\$1,960	171,500	2,30,400
	L'Ifere.	-	33,700	269,873	303.573	78,	Le Var,	49,900	213,566	
	Du Jora,	- 1	30,900	218,700	3 .9,6001	79,	La Vendé,	34,,00		220,133
39.	Des Landes,	-	30,500	209,700	240,200	80,	La Vienne, -	48,000	2 32,900	281,600
	Laire et Cher,	- 1	\$1,100	207.800	2,50,100	81,	La Haute Vienne,	41.300	140,0;3	
	La Haute Leite,		41,100	172,233	213,333	82,	Les Votres, -	28,200	291,800	320,000
	La Loire Inférieur	e,	108,100	399,633	507,733		L'Yonne, -	72,000	306 366	
	Carry forward	J	2,147,180	Te,c19 /31	12,099,677		Tetal	1,700,270	20.121.536	20,363,014

Efficienting the acres at 131,722,295, and the people as here detailed, we find that it makes, within a finall fraction, five acres a head. That proportion would be 131,815,270 acres. If England were equally well peopled, there should be upon 46,915,933 acres, rather more than 9,000,000 fouls. And for our two islands, to equal France in this respect, there should be in them 19,867,117 fouls; instead of which there are not more than 15,000,000.

An observation, rather curious, may be made on this detail; it appears, that less than one-fourth of the people inhabit towns; a very remarkable circumflance, because it is commonly observed, and doubtles founded on certain facts, that in flourithing countries the half of a nation is found in towns. Many writers, I believe, have looked upon this as the proportion in England: in Holland, and in Lombardy, the richest countries in Furope, the same probably exists. I am much inclined to connect this singular sact, relating to France, with that want of effect and success in its agriculture, which I have remarked in almost every part of the kingdom; resulting also from the extreme division of the soil into little properties. It appears likewise, from this detail, that their towns

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are not confiderable enough to give that animation and vigour to the industry of the country, which is best encouraged by the activity of the demand which cities afford for the products of agriculture. A more certain and unequivocal proof of the justice of my remarks, on the too great and mischievous division of landed property and farms in that kingdom could hardly have arisen: and it yields the clearest conviction, that the progress of national improvement has been upon the whole but finall in France. The manufactures and commerce of the kingdom must have made a less advance than one would have conceived possible, not to have effected a proportion far different from this of a fifth. A really active industry, proportioned to the real resources of the kingdom, should long ago have purged the country (to use aft expression of Sir James Stuart's) of those superfluous mouths, -I do not fay hands; for they eat more than they work; and it is their want of employment that ought to drive them into towns. Another observation is fuggested by this curious table of population: I have repeatedly, in the diary of my journey, remarked, that the near approach to Paris is a defert compared to that of London; that the difference is infinitely greater than the difference of their population; and that the want of traffic, on the high roads, is found every where in the kingdom as well as at Paris. Now it deferves notice, that the great refort, which is every where observable on the highways of England, flows from the number, fize, and wealth of our towns, much more than from any other circumstance. It is not the country, but towns that give the rapid circulation from one part of a kingdom to the other; and though, at first fight, France may be thought to have the advantage in this respect, yet a nearer view of the subject will allow of no fuch conclusion. In the following lift, the English column has furely the advantage:

English.	French.	English.	French.
London,	Paris,	Manchester,	Rouen,
Dublin,	Lyons,	Birmingham,	Lille,
Edinburgh,	Bourdeaux,	Norwich,	Nilmes,
Liverpool,	Marfeilles,	Cork,	St. Malo.
Briftol.	Nantes,	Glafgow,	Bayonne,
Newcaitle.	Havre,	Bath,	Verfailles.
Hull.	Rochelle.	•	

The vast superiority of London and Dublin, to Paris and Lyons, renders the whole comparison ridiculous. I believe, London, without exaggeration, to be alone equal to Paris, Lyons, Bourdeaux, and Marseilles, as appears by the lists of population, and by the wealth and trade of all. But if we reflect, that the towns of England, &c. are portions of a population of fifteen millions only, and those of France parts of twenty-six millions, the comparison shews at once the vastly greater activity there must be in one country than in the other *.

Of all the subjects of political economy, I know not one that has given rise to such a cloud of errors as this of population. It feems, for some centuries, to have been confidered as the only sure test of national prosperity. The politicians of those times, and

[•] What can be thought of those marvellous politicians, the nobility of Dourdon, who call for entrées at the gates of the cities, not as a good mode of taxation, but to testiain the too great populousness of cities, "which never takes place but by the depopulation of the country." Cahier, p. 20. The Count de Mirabeau, in his Monarchie Prussienne, recurs often to the same idea. He was grossly erroneous, when he stated the subjects of the King of France as thrice more numerous than those of England, if he meant by England, as we are to suppose, Scotland and Ireland also, tom. is p. 402.

the majority of them in the prefent, have been of opinion, that, to enumerate the people, was the only frep necessary to be taken, in order to ascertain the degree in which a country was flourishing. Two-and-twenty years ago, in my "Tour through the North of England, 1769," I entered my caveat against such a doctrine, and presumed to affert, "that no nation is rich or powerful by means of mere numbers of people; it is the industrious alone that constitute a kingdom's strength; that affertion I repeated in my "Political Arithmetic, 1774;" and in the fecond part, 1779, under other combinations. About the fame time a genius of a superior cast (Sir James Stuart,) very much exceeded my weak efforts, and, with a mafterly hand, explained the principles of population. Long fince that period, other writers have arisen who have viewed the subject in its right light; and of these none have equalled Mons. Herenschwandt, who, in his " Economie Politique Moderne, 1786;" and his "Discours fur la Division des Terres *, 1788," has almost exhausted the subject. I shall not, however, omit to name the report of the committee of Mendicité in the National Assembly. The following passage does the highest honour to their political discernment:—" C'est ainsi que malgré les assertions, sans cesse répetées depuis vingt ans, de tous les écrivains politiques qui placent la prosperité d'un empire dans sa plus grande population, une population excessive sans un grand travail 🔡 suns des productions abondantes, seroit au contruire une dévorante surcharge pour un etat; car, il faudroit alors que cette excessive population partageat les benefices de celle qui, sans elle, cut trouvé une subsistence suffijante; il faudroit que la même somme de travail fut abandonn'e à une plus grande quantité de bras; il faudroit enfin necessuirement que le prix de ce travail baissat par la plus grande concurrence des travailleurs, d'on resulteroit une indigence complette pour ceux qui ne trouveroient pas de travail, & une subsistance incomplette pour ceux-mêmes aux quels il ne seroit pas refuse †"-France itself affords an irrefragable proof of the truth of these sentiments; for I am clearly of opinion, from the observations I made in every province of the kingdom, that her population is fo much beyond the proportion of her industry and labour, that she would be much more powerful, and infinitely more flourishing, if she had five or fix millions less of inhabitants. From her too great population, the prefents, in every quarter, fuch spectacles of wretchedness, as are absolutely inconsistent with that degree of national felicity, which she was capable of attaining even under her old government. A traveller much less attentive than I was to objects of this kind, must see at every turn most unequivocal signs of distress. That these should exist, no one can wonder who considers the price of labour, and of provisions, and the mifery into which a finall rife in the price of wheat throws the lower claffes; a mifery, that is fure to increase itself by the alarm it excites, lest subsistence should be wanted. The causes of this great population were certainly not to be found in the benignity of the old government yielding a due protection to the lower classes, for, on the contrary, it abandoned them to the mercy of the privileged orders. It is fair, however, to observe, that there was nothing in the principles of the old government, so directly inimical to population, as to prevent its increase. Many croaking writers in France have repeatedly announced the depopulation of that kingdom, with pretty much the fame truth and ingenuity that have been exercised on the same subject in England. Monf. Necker, in a very fentible passage, gives a decifive answer to them, which is at the same time thoroughly applicable to the state of England, as well as to that of France t. Nor can the great population of France be attributed to the climate, for the tables of births

* See particularly, p. 48, 51. &c.

1 De l'Administ. des Finances. Ouvres. 4to. Londres. p. 320.

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⁺ P'an de Travail du Comité pour l'extinction de la Mendicité presenté par M. de Liancourt. Svo. p. 6. 1790.

and burials offer nothing more favourable in that kingdom, than in our own. And a much worse climate in Holland and Flanders, and in some parts of Germany and Italy, is attended with a still greater populousness. Nor is it to be imputed to an extraordinary prosperity of manufactures, for our own are much more considerable, in proportion to

the number of people in the two countries.

This great populousness of France I attribute very much to the division of the lands into fmall properties, which takes place in that country to a degree of which we have in England but little conception. Whatever promifes the appearance even of subfiftence, miduces men to marry. The inheritance of ten or twelve acres to be divided amongst the children of the proprietor, will be looked to with the views of a permanent fettlement, and either occasions a marriage, the infants of which die young for want of fusicient nourishment †; or keeps children at home, distressing their relations, long after the time that they should have emigrated to towns. In districts that contain immense quantities of waste land of a certain degree of fertility, as in the roots of the Pyrenees, belonging to communities ready to fell them, economy and industry, animated with the views of fettling and marrying, flourish greatly: in such neighbourhoods something like an American increase takes place; and, if the land be cheap, little distress is found. But as procreation goes on rapidly, under fuch circumftances, the leaft check to fubfiftence is attended with great mifery; as waftes becoming dearer, or the best portions being fold, or difficulties arifing in the acquifition; all which cases I met with in those mountains. The moment any impediment happens, the diffress of such people will be proportioned to the activity and vigour which had animated population. It is obvious, that in the cases here referred to, no distress occurs, if the manufactures and commerce of the district are so flourishing as to demand all this superfluity of rural population as fast as it arises; for that is precisely the balance of employments which prevails in a well regulated fociety; the country breeding people to supply the demand and consumption of towns and manufactures. Population will, in every flate, increase perhaps too fast for this demand. England is in this respect, from the unrivalled prosperity of her manufactures, in a better fituation than any other country in Europe; but even in England population is fometimes too active, as we fee clearly by the dangerous increase of poor's rates in country villages; and her manufactures being employed very much for supplying foreign confumption, they are often exposed to bad times; to a flack demand, which turns thousands out of employment, and fends them to their parishes for support. Since the conclusion of the American war, however, nothing of this kind has happened; and the feven years which have elapfed fince that period, may be named as the most decisively prosperous which England ever knew. It has been said to me in France, would you leave uncultivated lands waste, rather than let them be cultivated in finall portions, through a fear of population?—I certainly would not: I would on the contrary, encourage their culture; but I would prohibit the division of small farms, which is as mischievous to cultivation, as it is fure to be diffreshing to the people. The indifcriminate praise of a great fub-division, which has found its way unhappily into the National Assembly, must have arisen from a want of examination into facts: go to districts where the properties are minutely divided, and you will find (at least I have done it universally) great distress, and even mifery, and probably very bad agriculture. Go to others, where fuch fub-division

* A very ingenious Italian writer states the people of France at 1290 fouls per league; and in Italy at 1335. Fabbroni Reflexions sur l'Agric. p. 243.

[†] Monf. Necker, in the same section as that quoted above, remarks this to be the case in France; and justly observes, that the population of such a country being composed of too great a proportion of infants, a million of people implies neither the force nor labour of a million in countries otherwise constituted.

has not taken place, and you will find a better cultivation, and infinitely lefs mifery; and if you would fee a diffrict, with as little diffrefs in it as is confiftent with the political fystem of the old government of France, you must assuredly go where there are no little properties at all. You must visit the great farms in Beauce, Picardy, part of Normandy, and Artois, and there you will find no more population than what is regularly employed and regularly paid; and if in fuch districts you should, contrary to this rule, meet with much distress, it is twenty to one but that it is in a parish which has some commons that tempt the poor to have cattle—to have property—and, in consequence, misery. When you are engaged in this political tour, finish it by seeing England, and I will shew you a fet of peafants well cloathed, well nourifhed, tolerably drunken from superfluity, well lodged, and at their cafe; and yet amongst them, not one in a thousand has either land or cattle. When you have viewed all this, go back to your tribune, and preach, if you please, in favour of a minute division of landed property. There are two other gross errors, in relation to this subject, that should be mentioned; these are, the encouragements that are fometimes given to marriage, and the idea of the importance of attracting foreigners. Neither of these is at all admissible on just principles, in such a country as France. The predominant evil of the kingdom, is the having fo great a population, that the can neither employ nor feed it: why then encourage marriage? would you breed more people, because you have more already than you know what to do with? You have fo great a competition for food, that your people are starving or in misery; and you would encourage the production of more to encourage that competition. It may almost be questioned, whether the contrary policy ought not to be embraced? whether difficulties should not be laid on the marriage of those who cannot make it appear that they have a prospect of maintaining the children that shall be the fruit of it? But why encourage marriages which are fure to take place in all fituations in which they ought to take place?—There is no inflance to be found of plenty of regular employment being first established, where marriages have not followed in a proportionate degree. The policy, therefore, at best is useless, and may be pernicious. Nor is the attraction of foreigners defirable in fuch a kingdom as France. It does not feem reafonable to have a peafantry half flarved for want of employment, arifing from a too great populousness; and yet, at the fame time, to import foreigners, to increase the competition for employment and bread, which are infufficient for the present population of the kingdom. This must be the effect, if the new comers be industrious; if they belong to the higher classes, their emigration from home must be very infiguificant, and by no means an object of true policy; they must leave their own country, not in consequence of encouragement given in another, but from fome strokes of ill policy at home. Such instances are indeed out of the common course of events, like the perfecutions of a Duke d'Alva, or the revocation of the edict of Nantes. It is the duty of every country, to open its arms, through mere humanity, to receive fuch fugitives; and the advantages derived from receiving them may be very confiderable, as was the case with England. But this is not the kind of emigrations to which I would allude, but rather to the establishment of such colonies as the King of Spain's, in the Sierre Morena. German beggars were imported, at an immenfe expence, and fupplied with every thing necessary to establish little farms in those deferts; whilft at the fame time, every town in Spain fwarmed with multitudes of idle and poor vagrants, who owed their support to bishops and convents. Suppress gradually this blind and indifcriminate charity, the parent of infinite abuse and misery, and at the fame time give fimilar employments to your own poor; by means of this policy, you will want no foreigners; and you may fettle ten Spanish families for the expence of one German. It is very common to hear of the want of population in Spain, and fome TT 2

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; and nfants, has other countries; but fach ideas are usually the result of ignorance, since all ill governed countries are commonly too populous. Spain, from the happiness of its climate, is greatly so, notwithstanding the apparent scarcity of inhabitants; for, as it has been shewn above, that country which has more people than it can maintain by industry, who must either stave, or remain a dead weight on the charity of others, is manifestly too populous *; and Spain is perhaps the best peopled country in Europe, in proportion to its industry. When the great evil is having more people than there is wisdom, in the political infitutes of a country to govern, the remedy is not by attracting foreigners—it lies much nearer bome.

CONSUMPTION.

Vears.	Oxen.	Calves.	Sheep.	Hogs.	Years.	Oxen.	Calves.	Sheep.	Hogs.
767,	68,763	106,579	358,577	37.899		71,755	104,600	343,300	35,82
			344,320		78,	73,600		328,868	
			333,91€	36,186		73.468	99,952	324,028	38,21
		110,578		36,712		71,488	104,825	308,043	41,41
			314,124			70,484		317,681	
		101,791		28,610		72,107	100,706	316,563	44,77
73,	65,324	99.749	309.137	29,391	113,	71,042	98,478	321,627	39,17
			309,573	30,032	84,	72,984	100,112	327,034	39.62
			309,662	32,722	85,	73,846		332,628	
76,	71,208	102,291	328,505	37,740 1	86,	73,088	89.575	328,699	39.57

These are the quantities for which duties are paid; but it is calculated by the officers of the cultoms, that what enters contraband, and for which nothing is paid, amounts to one-fixth of the whole †.

The confumption of flour is 1500 facks per diem, each weighing 320lb. requiring nine feptiers of corn to yield four of those facks, or 3375 feptiers per diem. This is, per annum, 1,231,875 feptiers; the French political arithmeticians agree in calculating the confumption of their people per head, at three feptiers for the whole kingdom on an average; but this will not lead us to the population of the capital, as the immense confumption of meat in it must evidently reduce considerably that proportion. It may probably be estimated at two septiers, which will make the population 615,937 souls. Mons. Necker's account of the population was 660,000. The enumeration in 1790 made the numbers no more than 550.800; and there are abundant reasons for believing the affertion, that this capital was diminished by the revolution in that proportion at least. This point is, however, ascertained by the consumption, which is now 1350 sacks a day, or reduced one-tenth, which, at two septiers of corn, implies a population of

• An Italian author, with whom I had the pleasure of conversing at Turin, justly observes, "Quanto la popolazione proporzionata ai prodotti della natura e dell' arte è vantaggiosa di una nazione, altrettanto è nociva una popolazione soverchia." L'abbate Vasco, Risposta al questo proposto da lia Reale Accad. delle Scienze, &c. kvo. 1788. p. 55.

4 To some it may appear strange, how such a commodity as live oxen, can be sinuggled in great quantities; but the means of doing it are numerous; one was discovered, and many more of the same fort are supposed to exist undiscovered; a subterraneous passage was preced under the wall, going from a court-yard without the wall, to a butcher's yard within; and whole droves of oxen, &c. entered by it in the night for a long time, before it was known. The officers of the barriers are convinced, that on an average of commodities, one-fixth is snoggled.

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554,344; and as this comes within 2000 of the actual enumeration, it proves that two feptiers a head is an accurate estimate; and though it does not perfectly agree with Monf. Necker's account of the former population of Paris, yet it is much nearer to it than the calculations made to correct that account, by Dr. Price, and by the very able and ingenious political arithmetician, Mr. Howlet. As the late enumeration shews the population of Paris to have been (proportionably to the confumption of corn) 615,937 fouls, when its births amounted to 20,550, this fact confirms the general calculation in France, that the births in a great city are to be multiplied by thirty; for the above mentioned number fo multiplied, gives 616,500, which comes fo near the truth, that the difference is not worth correcting. M. Necker's multiplier is confirmed clearly; and the event, which gives to France a population of 26,000,000, has proved, that Dr. Price, who calculated them at above 30,000,000, was as grofly mistaken in his exaggeration of French populousness, as Mr. Howlet has shewn him to be in his diminution of that of England. It feems indeed to have been the fate of that calculator to have been equally refuted upon almost every political question he handled; the mischief of inclofures—the depopulation of England—the populoufness of France—and the denunciation of ruin he pronounced fo authoritatively against a variety of annuitant societies, that have flourished almost in proportion to the distresses he assigned them. The confuniption of wine at Paris, on an average of the last twenty years, has been from 230,000 to 260,000 muids per annum; average, 245.000. In 1789 it funk rather more than 50,000 muids, by fmuggling, during the confusions of that period. In 245,000 muids there are 70,560,000 Paris pints, or English quarts, which makes the daily consumption 193,315 quarts; and if to this, according to the computation of the commis of the barriers, one-fixth is to be added for fmuggling, it makes 225,534, which is one-third of a quart, and one-tenth of that third per head per diem. The confumption of meat is very difficult to be calculated, because the weight of the beasts is not noted; I can guefs at it only, and therefore the reader will pay no other attention to what follows than to a mere conjecture. I viewed many hundreds of the oxen, at different times, and estimate the average at fixty stone; but as there are doubtless many others smaller, let us calculate at 50, or 700 b. and let us drop fmuggling in these cases, since though it may on the whole, be one-fixth yet it cannot be any thing like that in thefe commodities; the calves at 120lb, the sheep at 60lb, and the hogs at 100lb.

	T	otal	*,			. ,		•	84,369,540
Hogs,	•	•	-	•	٠	36,333, at	100	-	3,633,200
Sheep,						323,762, at			19,425,720
Calves,	-	-	-	-	-	103,271, at	120		12,392,520
Oxen,	-	-	-	-	-	69,893, at	700lb.		48,918,100lb

This quantity divided amongst a population of 615,937, gives to each person 136lb. of meat for his annual consumption, or above one-third of a pound per diem. During the same twenty years, the consumption of London was on an average, per annum, 92,539 oxen, and 6.49,369 sheep †. These oxen probably weighed 840lb. each, and the sheep 100lb.; which two articles only, without calves or hogs, make 142,669,660;

† Report of the Com. of the Court of Common Council, 1786. Folio. p. 75.

[•] Long fince this was written, I received Monf Lavoifier's Refultats d'un ouverage, 1791. in which he gives a table of the Paris confimption; but I do not know on what authority, for the weight per head he makes the total of all meats 82,300,000lb.

yet these quantities do not nearly contain the whole number brought to London, which for want of such taxes as at Paris, can be discovered with no certainty. The consumption of Brest is registered for the year 1778, when 22,000 people, in 1900 houses, consumed 82,000 boiseau, each 150lb. of corn of all forts; 16,000 bariques of wine and brandy, and 1000 of cyder and beer. This consumption amounted to per head—corn 2½ septiers, of 240lb. per annum; — wine, brandy, beer, and cyder, one third of a quart per head per diem. Nancy, in 1733, when it contained 19,645 souls, consumed,

Oxen, 2402.—Calves, 9073.—Sheep, 11,863.—Total, 23,338.

It confumed, therefore, more than one of these pieces per head of its population. In

1738, when it contained 19,831 fouls, it confumed,

Oxen, 2309.—Calves, 5058.—Sheep, 9549.—Total, 16,896; above three-fourths each. The confumption of Paris is three fourths of one of these beasts per head of population. As the finest cattle in the kingdom are sent to the capital, the proportions in number ought to be less; but the wealth of that capital would have justified the supposition of a still greater comparative consumption.

CHAP. XVII .- Of the Police of Corn in France.

OF all fubjects, there is none comparable to the police of corn, for displaying the folly to which men can arrive, who do not betray a want of common fense in reasoning on other topics. One tells us (I confine myfelf chiefly to French authorities, engaged as I am at present in researches in that kingdom) that the price is in exact proportion to the quantity of corn, and to the quantity of money at the fame time in the kingdom t; and that when wheat fells at 36 livres the feptier, it is a proof there is not half enough to last till harvest §. He proposes to have magazines in every market, and to prohibit, under fevere penalties, a higher price than 24 livres. This would be the infallible method to have it very foon at 50, and perhaps 100 livres. That the price of corn does not depend on the quantity of money, is proved by the fudden rife proceeding from alarms, of which this author might have known an inflance in the year he printed; for Monf. Necker's memoir to the National Affembly was no fooner difperfed, than the price role in one week 30 per cent.; yet the quantity in the kingdom, both of money and corn, remained just as before that memoir was published. But it has already been fufficiently proved, that a very small deficiency of the crop will make an enormous difference in the price. I may add, that the mere apprehension of a deficiency, whether ill or well founded, will have the fame effect. From this circumstance, I draw a conclusion of no trifling import to all governments; and that is, never to express publicly any apprehension of a want of corn; and the only method by which government can express their fears, is by proclamations against export: prohibitions; ordonances of regulation of fale; arrets, or laws against monopolizers; or vain and frivolous boalts, like those of Mons. Necker, of making great imports from abroad—all these measures have the fame tendency; they confirm amongit the people the apprehension of want; for when it is found amongst the lowest orders, that government is alarmed as well as they themselves, their own fears augment; they rife in a rage against monopolizers, or fpeculators, as they ought rather to be called, and then every step they take has the never-

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^{*} Encyclop. Methealque Marin:, t. î. part 1. p. 198.

M. Durival 3 tom. 4to. 1778. t. ii. p. 5.

1789. 8vo. p. 5.

\$\forall \text{ Confid. fur la Cherte des Grains, par M. Vaudrey.} \text{1789. 8vo. p. 5.}

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failing effect of increasing the evil; the price rifes still higher, as it must do inevitably, when fuch furious obflructions are thrown on the interior trade in corn, as to make it a matter of great and ferious danger to have any thing to do with it. In fuch a fituation of madness and folly in the people, the plenty of one district cannot supply the want of another, without fuch a montrous premium, as shall not only pay the expence of transport, but infure the corn, ...nen lodged in granaries, against the blind and violent sufpicions of the people. To raife this spirit, nothing more is necessary than for government to iffue any decree whatever, that discovers an alarm; the people immediately are apprehensive of famine; and this apprehension can never take place without creating the reality in a great measure. It is therefore the duty of a wife and enlightened government, if at any time they should fear a short provision of corn, to take the most private and cautious measures possible, either to prevent export, by buying up the corn that is collected for exportation, and keeping it within the kingdom, a measure easy to be done through individuals, or to encourage import, and to avoid making any public decree or declaration. The history of corn, in France, during the year 1789, was a most extraordinary proof of the justiness of these principles. Wherever I pasted, and it was through many provinces, I made inquiries into the causes of the scarcity; and was every where affured, that the dearness was the most extraordinary circumstance in the world: for, though the crop had not been great, yet it was about an average one; and confequently that the deficiency must certainly have been occasioned by exportation. I demanded, if they were fure that an exportation had taken place?—They replied, no; but that it might have been done privately: this answer sufficiently shewed, that these exports were purely ideal. The dearnefs, however, prevailed to fuch a degree, in May and June particularly, (not without being fomented by men who fought to blow the difcontents of the people into absolute outrage,) that Mons. Necker thought it right not only to order immense cargoes of wheat, and every other fort of corn, to be bought up all over Europe, but likewife in June, to announce to the public, with great parade, the steps that he had taken, in a paper called Memoire instructif, in which he stated, that he had bought, and ordered to be bought, 1,404,463 quintaux of different forts of grain, of which more than 800,000 were arrived. I was a personal witness, in many markets, of the effect of this publication; inflead of finking the price, it raifed it directly, and enormoufly. Upon one market day, at Nangis, from 38 livres to 43 livres the feptier of 240lb.; and upon the following one to 49 livres, which was July 1st; and on the next day, at Columiers, it was taxed by the police at 4 livres of. and 4 livres 6f. the 23lb.; but as the farmers would not bring it to market at that price, they fold it at their farms at 51 livres, and even 6 livres, or 57 livres the septier. At Nangis it advanced, in fourteen days, 11 livres a feptier; and at Columiers a great deal more. Now, it is to be observed, that these markets are in the vicinity of the capital, for which Mons. Necker's great foreign provision was chiefly defigned; and confequently if his measures would have had any where a good effect, it might have been expected here; but fince the contrary happened, and the price, in two markets, was raised 25 per cent. we may reasonably conclude, that it did good no where; but to what was this apparent scarcity Absolutely to Mons. Necker's having said in his memoir, à mon arivée dans la ministere je me bâtai de prendre des informations sur le produit de la récolte & sur les besoins des pays étrangers *. It was from these unseasonable inquiries in September

^{*} He has introduced a tiffue of the same stuff in his Memoir sur L'Administration de M. Necker, par sui même, p. 367, where he says, with the true ignorance of the prohibitory system, "Mon system for Pexportation des grains est infiniment simple, ainsi que j'ai eu souvent Poccasion de le developper; il se borne à

1788, that all the mischief was derived. They pervaded the whole kingdom, and spread an universal alarm; the price in consequence arose; and when once it rises in France, mischief immediately follows, because the populace, by their violence, render the internal trade insecure and dangerous. The business of the minister was done in a moment; his consummate vanity, which, from having been confined to his character as an author, now became the scourge of the kingdom, prohibited the export for no other reason, than because the Archbishop of Sens had the year before allowed it, in contradiction to that mass of errors and prejudices which M. Necker's hook upon the corn trade had disseminated. It is curious to see him, in his Memoir instructif, alserting, that France, in 1787, etait livrée au commerce des grains dans tout le royaume, avec plus d'activité, que jamais & l'on avoit envoye dans l'etranger une quantité considerable de grains. Now, to see the invidious manner in which this is put, let us turn to the register of the Bureau General de la balance du Commerce, where we shall sind the following statement of the corn-trade for 1787:

	Imports.	Exports.
****	- 8,116,000 liv - 2,040,000 - 375,000 - 945,000	Corn, 3,165,600 liv. Wheat, - 6,5;9,900 Legumes, - 949,200

n'en avoir aucun d'immuable, mais à defendre ou permettre cette exportation felon le temps & felon les circonstances." When a man starts upon a rotten foundation, he is fure to slounder in this manner; the simplicity of a system to be new moulded every moment, ' selon le temps & selon les circonstances!" And who is to judge of these scasons and circumitances? A minister? A government? These, i. seems, are to promulgate laws, in consequence of their having made inquiries into the lla c of crops and sloc s on hand. What prefumption; what an excels of vanity must it be, which impels a man to suppose, that the truth is within the verge of fuch inquiries; or, that he is one line, or one point nearer to it, after he has made them before he began. Go to the Intendant in France, or to the Lord Lieutenant in England, and suppose him to receive a letter from government directing such inquiries: pursue the intelligence, - follow him to his table for converfation on crops, - or in his ride among the farmers (an idea that may obtain in England, but never was fuch a ride taken by an Intendant in France) in order to make inquiries; mark the delilitory, broken, and false specimens of the intelligence he receives, wand then recur to the simplicity of the system that is to be founded on such inquiries. Mont Necker writes as if we were ignorant of the fources of his information. He ought to have known that miniflers can never procure it; and that they cannot be fo good an authority for a whole kingdom, as a country gentleman, skilled in agriculture, is for his own parific; yet what gentleman would prefume to pronounce upon a crop to the 36oth part of its amount, or even to the 20th? But it mult be observed, that all Moni. Necker's simple operations, which caused an unlimited import, at an unlimited expense, affected not one twentieth part of a year's confumption by the people, whose welfare he took upon him to superintend. If this plain fact -the undoubted ignorance of every man what the crop is, or has been, in fuch fractions as $\frac{1}{12}$, $\frac{1}{12}$, and much more $\frac{1}{12}$, be well confidered, it will furely follow, that an absolute and unbounded liberty in the corn trade is infinitely more likely to lave effect, than fuch patrry, deceitful, and false inquiries as this minister, with his fyftem of complex fundicity, was forced, according to his own account, o rely upon. Let the reader purfue the paffage, p. 369, the prevoyance of government application bilities le monvement du commerce attrait prochain -calculi. A pretty fupp rt for a great nation! Their fablishence is to depend on the combination of a sifemany declaimer rather than on the industry and energy of THEIR OWN exertions. Monf. Necker's performance deferves an attentive periodal, especially when he paints pathetically the anxieties he fulfered on account of the want of corn 1 with 1 that those who read it would only carry in their minds this undoubted fact, that the learnity which occasioned those inquietudes was absolutely and folely of his own creating; and that if he had not been misuter in I rance, and that government had taken no flep whatever in this affair, there would no have been fuch a word as feareity heard in the kingdom. He converted, by his management, an ordinarily flight cross into a fearcity; and he made that fearcity a famine; to remedy which, he allumes to much merit, as to naufcate a common reader. This

This account shews pretty clearly how well founded the minister was, when he attempted to throw on the wife measure of his predecessor the mischiefs which arose from his own pernicious prejudices alone; and how the liberty of commerce, which had taken place most advantageously in consequence of the free trade in 1787, had been more an import trade than an export one; and of course, it shews, that when he advifed his fovereign to prohibit that trade, he acted directly contrary even to his own principles; and he did this at the hazard of raifing a general alarm in the kingdom, which is always of worse consequence than any possible export. His whole conduct, therefore, was one continued feries of fuch errors, as can, in a fentible man, be attributed only to the predominant vanity that instigated him to hazard the welfare of a great nation to defend a treatife of his own composition. But as this minister thought proper to change the fystem of a natural export and import; and to spread, by his measures, an alarm amongst the people, that seemed to confirm their own apprehensions, let us next examine what he did to cure the evils he had thus created. He imported, at the enormous expence of 45,543,697 livres (about 2,000,000 sterling) the quantity of 1,404,465 quintaux of corn of all forts, which, at 240lb. make 585,192 feptiers, fusficient to feed no more than 195,064 people a year. At three septiers per head, for the population of 26 millions of mouths, this supply, thus egregiously boasted of, would not, by 55,908 septiers, feed France even for three days; for her daily confumption is 213,700 feptiers, nor have I the least doubt of more persons dying of famine, in confequence of his measures, than all the corn he procured would feed for a year*. So absolutely contemptible is all importation as a remedy for famine! and so utterly ridiculous is the idea of preventing your own people from being flarved, by all owing an import which, in its greatest and most forced quantities, bears so trifling a proportion to the confumption of a whole people, even when bribed, rather than bought from every country in Europe! But a conclusion of much greater importance is to be deduced from these curious facts, in the most explicit confirmation of the preceding principles, that all great variations in the price of corn are engendered by apprehension, and do not depend on the quantity in the markets. The report of Monf. Necker's meafures we have found, did not fink, but raifed the price: providing France with less than three days bread, when blazed forth with all the apparatus of government, actually raifed the price in the markets, where I was a witness, 25 per cent. Of what possible confequence was three days provision added to the national stock, when compared with the mifery and famine implied—and which actually took place in confequence of pushing the price up to enormoutly, by Monf. Necker's measures? Would it not have been infinitely wifer never to have stopped the trade, which I have proved to have been a trade of import?—Never to have expressed any solicitude?—Never to have taken any public steps, but to have let the demand and supply quietly meet, without noise and without parade? The confequence would have been, faving forty-five millions of the public money, and the lives of fome hundred thousands, starved by the high price that was created, even without a scarcity; for I am firmly persuaded, that if no public step whatever had been taken, and the archbishop of Sens' edich never repealed, the price of wheat in no part of France would have feen, in 1789, so high a rate as 30 livres, instead of rising to 50 and 57 livres. If there is any truth in these principles, what are we to think of the first minister hunting after a little popularity, and boasting

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[•] At a moment when there was a great stagnation in every fort of employment, a high price of bread, instead of a moderate one, must have destroyed many; there was no doubt of g eat numbers dying for want in every part of the kingdom. The people were reduced in some places to ear bran and boiled grass. Journa de P Alp Nat. tom. i.

in his Memoire, that the King allowed only bread of wheat and rye mixed to be ferved at his own table? What were the conclusions to be looked for in the people, but that if such were the extremities to which France was reduced, all were in danger of death for want of bread. The consequence is palpable; a blind rage against monopolizers, hanging bakers, seizing barges, and setting sire to magazines; and the inevitable effect of a sudden and enormous rise in the price, wherever such measures are precipitated by the populace, who never are truly active but in their own destruction. It was the same spirit that distated the following passage, in that Memoire instructif, "Les accaparemens sont la premiere cause à laquelle la multitude attribue la chrete des grains, of en effect on souvent eu lieu de se plaindre de la capidité des speculateurs." I cannot read these lines, which are as untrue in fact as erroneous in argument, without indignation. The multitude never have to complain of speculators; they are always greatly indebted to them. There is no such thing as monopolizing corn but to the benefit of the people †. And all the evils of the year 1789 would have been prevented, if monopolizers, by raising the price in the preceding autumn, and by lessening the consumption,

• This is pretty much like his feuding a memoir to the National Affembly, which was read October 24, in which the minister (1) a Heft done urgent de défendre de plus en plus Pextortation en France: mais il et éfficile de veiller à cette prohibition. On a fait placer des cordons de troupes sur les frontiers à cette effects. Journal des Etats Generaux, tom. v. p. 194. Every expression of this nature becoming public, tended to in-

flame the people, and confequently to raife the price.

I am much inclined to believe, that no fort of monopoly ever was, or ever can be injurious without the affiliance of government; and that government never tends in the leaft to favour a monopoly without doing infinite mifchief. We have heard in England of attempts to monopolize hemp, allum, cotton, and many other articles: ill conceived speculations, that always ended in the ruin of the schemers, and eventually did good, as I could flow, if this were the proper place. But to monopolize any article of common and darly hopply and confumption to a mifchievous degree, is absolutely impossible: to buy large quantities, at the cheapeft feafon of the years in order to hoard and bring them out at the very dearest moment, is the idea of a monopolizer or accaperour: this is, of all other transactions, the most beneficial towards an equal supply. The wheat which such a man buys is cheap, or he would not buy it with a view to profit: What does he do then? He takes from the market a portion, when the supply is large; and he brings that portion to the market when the supply is finall; and for doing this you hang him as an enemy. Why? Bccaufe he has made a private profit, perhaps a very great one, by coming in between the farmer and the coutumer. What should induce him to carry on his business, except the defire of profit? But the benefit of the penpleis exactly in proportion to the greatness of that profit, fince it arises directly from the low price of corn at one feafon, and the dearness of it at another. Most clearly any trade which tends to level this inequality is advantageous in proportion asia effectsit. By buying great quantities when cheap, the price is raifed, and the confumption forced to be more sparing: this circumstance can alone fave the people from famine; if, when the cropia feanty, the people conform plentifully in autumn, they must inevitably starve in furnmer; and they certainly will confume plentifully if corn is cheap. Government cannot flep in and fay, you shall now eat half a pound of bread only, that you may not by and by be put to half an ounce. Government cannot do this without erecting granaries, which we know, by the experience of all Europe, is a most pernicious fystem, and done at an expense which, if laid out in premiums, encouraging cultivation, would convert deferts into fruitful corn-fields. But private monopolizers can and do effect it; for by their purchases in clieap months they raife the price, and exactly in that proportion leffen the confumption; this is the great object, for nothing elfe can make a thort crop hold out through the year; when once this is effected, the people are fafe, they may pay very dear afterwards, but the corn will be forth-coming, and they will have it though at an high price. But reverse the medal, and suppose no monopolizers; in such a case, the cheap-ness in autumn continuing, the free consumption would continue with it; and an undue portion being eaten in winter, the fummer would come without its fupply : this was manifeffly the hillory of 1789; the people enraged at the idea of monopolizers, not at their real existence, (for the nation was starving for want of them,) hung the miferable dealers, on the idea of their having done what they were utterly unable to do. Thus, with tuch a fyllem of small farms as empty the whole crop into the markets in autumu, and make no referve for fum ner, there is no pollible remedy, but many and great monopolizers, who are beneficial to the public exactly in proportion to their profits. But in a country like England divided into large farms, fuch curn dealers are not equally wanted; the farmers are rich enough to wait for their returns, and keep a due referve in stacks to be threshed in summer; the best of all methods of keeping corn and the only one in which it receives no damage.

had divided the fupply more equally through the year. In a country like France, fubdivided mischievously into little farms, the quantity of corn in the markets in autumn is always beyond the proportion referved for supplying the rest of the year; of this evil, the best remedy is, enlarging the fize of farms; but when this does not take place, the dealings of monopolizers are the only refource. They truy when corn is cheap, in order to hoard it till it is dear; this is their speculation, and it is precisely the conduct that keeps the people from flarving; all imaginable encouragement should be given to fuch merchants, whose business answers every purpose of public granaries, without any of the evils that are fure to flow from them *. It may eafily be conceived, that in a country where the people live almost entirely on bread, and the blind proceedings of mobs are encouraged by arrets of parliaments, feconded by fuch blunders of government as I have described, and unaided by the beneficial existence of real monopolizers; it may easily be conceived, I fay, that the supply must be irregular, and in many inflances infulficient; it must be infufficient, exactly in proportion to the violence of the populace; and a very high price will be the unavoidable confequence, whatever may be the quantity in the kingdom. In June and July 1789, the markets were not opened before troops arrived to protect the farmers from having their corn feized; and the magistrates, to avoid insurrections among the people, set the assize too low upon corn, bread, and butcher's meat; that is, they fixed the prices at which they were to be fold, which is a most permicious regulation. The farmers, in consequence, refrained from going to market, in order to fell their wheat at home at the best price they could get, which was of course much higher than the affize of the markets. How well these principles, which fuch ample experience proves to be just, are understood in France, may be collected from the cabiers, many of whom demand measures which, if really purfued, would fpread abfolute famine through every province in the kingdom. It is demanded at one place, "that as France is exposed to the rigours of famine, every farmer should be obliged to register his crop of every kind, gerbs, bottes, muids, &c.; and also every month the quantity fold t." Another requires, " that export be severely prohibited, as well as the circulation from province to province; and that importation be always allowed 1." A third §, " that the feverest laws be passed against monopolizers; a circumstance which at present desolates the kingdom." A system of prohibition of export is demanded by no less than twelve cabiers ||. And fifteen demand the erection of public magazines ¶. Of all folecifins, none ever equalled Paris demanding that the transport of corn from province to province should be prohibited. Such a request is

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[.] Well has it been observed by a modern writer, Lorsque les récoltes manquent en quelque lieu d'un grand empire, les travaux du reste de ses provinces étant payes d'une heureuse sécundité suffisent à la consommation de la to-

empire, les travaux du reste ae ses provinece etait payet d'une heureuse securité pupsent à la conformation de la to-chisté Sans sollicitude de la part du geuvernement, sans magazins publics, sar le seul esset d'une communication libre & facile on n'y connoit ni disette ni grande cherté. Theorie de Luxe, tom. i. p. 5. † Tier Etat de Mendon. p. 30. † Tier Etat de Paris, p. 43. § Tier Etat de Reims, art. 110. § Nob. de Quesnoy, p. 24. Nob. de St. Quintin, p. 9. Nob. de Lille. p. 20. T. Etat de Reims, p. 20. T. Etat de Rouen, p. 43. T. Etat de Dunkerque, p. 15. T Etat de litets, p. 46. Clergé de Rouen, p. 24. T. Etat de Rennes, p. 65. T. Etat de Valenciennes, p. 12. T. Etat de Iroyes, art. 96. T. Etat de Dour-

[¶] I have lately feen (January, 1792) in public print, the mention of a proposal of one of the ministers to erect public magazines; there wants nothing else to complete the system of absurdity in relation to com which has infested that fine kingdom. Magazines can do nothing more than private accapereurs; they can only bny when corn is cheap, and fell when it is dear; but they do this at such a vast expense, and with fo little occoromy, that if they do not take an equal advantage and profit with private speculators, they must demand an enormous tax to enable them to carry on their buliness; and if they do take such profit, the people are never the better for them. Mr. Symonds, in his paper on the public magazines of Italy, has proved them to be every where nuisances. See Annals of Agriculture, vol. xiii. p. 299. &c.

really edyfying, by offering to the attention of the philosophical observer, mankind under a new feature, worthy of the knowledge and intelligence that ought to reign in the capital of a great empire; and Monficur Necker was exactly fuited to be minister in the corn department of such a city!—The conclusions to be drawn from the whole business, are evident enough. There is but one policy which can secure a supply with entire fafety to a kingdom fo populous and fo ill cultivated as France, with fo large a portion of its territory under wood and vines; the policy I mean is an entire and abfolute liberty of export and import at all times, and at all prices, to be perfifted in with the fame unremitted firmnels, that has not only refcued Tufcany from the jaws of periodical famines, but has given her eighteen years of plenty, without the intervention of a moment's want. A great and important experiment! and if it has answered in fuch a mountainous, and, in comparison with France, a barren territory, though full of people, affuredly it would fulfil every hope, in fo noble and fertile a kingdom as France. But to secure a regular and certain supply, it is necessary that the farmer be equally fecure of a steady and good price. The average price in France vibrates between 18 and 22 livres a feptier of 240lb. I made enquiries through many provinces in 1789, into the common price, as well as that of the moment, and found (reducing their measures to the septier of 240lb.) that the mean price in Champagne is 18 livres; in Loraine 171; in Alface 22 livres; in Franche Comté 20 livres: in Bourgogne 18 livres; at Avignon, &c. 24 livres; at Paris, I believe, it may be calculated at 19 livres. -Perhaps the price, through the whole kingdom, would be found to be about 20 livres. Now, without entering into any analysis of the subject, or forming any comparison with other countries, France ought to know, at least she has dearly learned from experience, that this is not a price sufficient to give such encouragement to the farmers as to fecure her a certainty of fupply: no nation can have enough without a furplus; and no furplus will ever be raifed, where there is not a free corn trade.—The object, therefore, of an absolutely free export, is to secure the home supply. The mere profit of felling corn is no object; it is less than none; for the right use thereof is to feed your own people. But they cannot be fed, if the farmers have not encouragement to improve their agriculture; and this encouragement must be the certainty of a good.

† Price of Wheat at Paris, or at Rosoy, for 146 years.

Price of 73 Years, the rei	gn of Loui	a XIV.	Priceof 73 Years, the Reig	ns of Lou	is XV. and XVI.
		Lav. Sol. Den.			Liv. Sol. Den.
From 1643 to 1652	-	35 14 1	From 1716 to 1725		17 10 9
16,3 to 1662	-	32 12 2	17 26 to 1.35	-	16 9 2
1663 to 1672		23 6 11	1730 to 1745		18 15 7.
1673 to 1682		25 13 8	1749 to 1755	-	18 10 1 1
1683 to 1692	-	22 0 4	1756 to 1765	-	17 9 1
1693 to 1702		31 16 1	176 to 17:5		28 7 9
1703 to 1712	*****	23 17 1	1776 to 1785		22 4 7
1713 to 1715		33 1 6	1786	-	20 12 6
			17:7	_	22 2 6
General Average		28 1 5	1788	_	14 0 0
De la Balance du Commerce,	tom. 3.		General average		20 1 4
					price.

The affertion of the Marquis de Caffaux, "that the free corn trade established by Mons. Turgot, increased the productions of the agriculture of France as 150 to 100," (Seconde Suite de Confid. fur les Mech. ds Soc. p. 119.) must be received with great caution. That of Mons Millot, "that the lands of the same kingdom produced five times as much in Henry IV's reign as they do at present," is a very gross error, irreconcileable with the least probability. Elem. de l'Hiss. Gen. t. ii. p. 488.

price. Experience has proved sufficiently, that 20 livres will not do. An absolute freedom of interior circulation is so obviously necessary, that to name it is sufficient.

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price.

A great and decided encouragement to monopolizers † is as necessary to the regular fupply, as that feed should be sown to procure a crop; but reaping, in order to load the markets in winter, and to starve the people in summer, can be remedied by no other person but an accapareur. While such men are therefore objects of public hatred; while even laws are in force against them, (the most preposterous that can disgrace a people, fince they are made by the mouth, against the hand for lifting food to it,) no regular supply can be looked for. -We may expect to see famine periodical, in a kingdom governed by the principles which must take place, where the populace rule not by enlightened reprefentative, but by the violence of their ignorant and unmanageable wills. Paris governs the National Affembly; and the mass of the people, in great cities, are all alike absolutely ignorant how they are sed; and whether the bread they eat be gathered like acorns from a tree, or rained from the clouds, they are well convinced, that God Almighty fends the bread, and that they have the best possible right to eat it. The courts of London, aldermen and common councilmen, have, in every period, reasoned just like the populace of Paris t. The present system of France, relative to agriculture, is curious:

To encourage investments in land, I. Tax it Three Hundred Millions.

The internal shackles on the corn trade of France, are such as will greatly impede the establishment of that perfect freedom which alone forms the proper regulation for such a country. M. Turgot, in his Lettres fur les Grains, p. 126, notices a most absord duty at Bourdeaux, of 20f. per septier on all wheat consumed there, or even deposit of for foreign commerce, a duty which ought to have prevented the remark of the author of Credit National, v. 222, who mentions, as an extraordinary fact, "that at Toulouse there is a duty of 12f per septier on grinding, yet bread is cheaper there than at Bourdeaux." Surely it would be 61; it ought to be 8f. the septier cheaper.

† The word speculator, in various passages of this chapter, would be as proper as monopolizer, they mean the same thing as accapareur; a man who buys corn with a view to selling it at a higher price; what-

ever term is used, the thing meant is every where understood. ‡ Aldermen, common councilmen, and mobs, are confiltent when they talk nonfenfer but philosophers are not so easily to be pardoned; when M. l'Abbé Rozier declares, que la France recolté année ordinaire près du double plus de bled qu'elle n'en confomme, (Recueil de Mémoires sur la Culture & le Rouissage du Chauvre, 8vo. 1787. p. 5. he wrote what has a direct tendency to inflame the people; for the conclusion they must draw is, that an immense and incredible expert is always going on. If France produces in a common year double her consumption, what becomes of the surplus? Where are the other 25 millions of people that are fed with French corn? Where do the 78 000,000 of feptiers go that France has to spare; a quantity that would load all the ships possessed by that kingdom above thirty times to corry it. Instead of the common crop equalling two years confumption, it certainly does not equal thirteen months common confumption; that is fuel a confirmption as takes place at an average price. And all the difference of crops is, that confumption is moderate with a bad product, and plentitud with a good one. The failure of a crop in one province in a very small degree, which, under a good government, and entire liberty of trade, would not even be felt, will, under a fyllem of reftrictions and prohibitions, raife the price through the whole kingdom enormously; and if measures are taken to correct it by government, they will convert the high price into a famine. The author of Irailé d'Economie Politique, 8vo. 1783, p. 59/, dues not talk quite fo greatly, when he says a good crop will feed France a year and a half; but pretty near it. The abfurdities that daily appear on this ful-ject are aftomfling. In a work now publishing, it is faid, that a moderate crop furnifies England for three years, and a good one for five. Encyc opadie Methodique Economic tol. pt. i tom. i. p 75. This affertion is copied from an Italian, viz Zanoni dell' Agricollur 2, 1763, 8vo. tom i. p. 10, who took it verbatim from Ffuis sur divers Sujets interressant de l'olitique et de Morale, 8vo. 76 p. 216 It is thus hat such nonsense becomes propagated, when authors are content to copy one another, without knowledge or confideration.

To enable the land to pay it,
II. Prohibit the Export of Corn.

That cultivation may be rich and spirited,
III. Encourage small Farms.

That cattle may be plentiful,
IV. Forbid the Inclosure of Commons.

upply of the markets may be equal in summer as

And that the fupply of the markets may be equal in fummer as in winter.

V. Hang all Monopolizers.

Such may be called the agricultural code of the new government of France!

CHAP. IV. Of the Commerce of France.

AGRICULTURE, manufactures, and commerce, uniting to form what may be properly termed the mass of national industry, are so intimately connected in point of interest, under the dispensations of a wise political system, that it is impossible to treat amply of one of them, without perpetually recurring to the others. I seel, in the progress of my undertaking, the impossibility of giving the reader a clear idea of all the interests of French agriculture, without inferting, at the same time, some details of manufactures and commerce. The opportunities I possessed of gaining some valuable intelligence, enable me to insert several accounts hitherto unpublished, which I believe my commercial readers (should I have any such) will not be displeased to examine.

Imports into France in 1784.

					liv: 1				, liv.
Wood.	-		-			Flax-feed,		-	612,690
Timber,	-		-		1,866,800		-	-	272,400
Hoops, &c.		_	-		92,100	Tallew loaves,	-	-	1,133,400
Staves,	-		-		628,500	Refuse of filk,	-	-	94,900
Planks,	-		-		2,412,COO	Hemp,	-	•	4,385,300
Pitch and tar,		-			825,200	Hemp and flax	thread,	-	2,091,100
Ashes,	-		-		1,372,600	Thread of refu	le filk,	-	55,800
Soda and pot-afh	وا		-		3,873,900	Various wools,	-	-	25,925,000
Kelp, -		-		-	50,700	Spun ditto,	•	-	119,400
Peat aftes for ma	nure		-		665,100	Vigonia ditto,	•	-	259, 00
Grain,	•		-		141,500	Flax,	-	-	1,109.500
Millet and Canar	ry,	-		•	51,400	Silk raw,	•	-	29,582,700
					Manufallu	red Goods.			

Mercery, thread, and boneterie,	335,500	Table linen, -	-	99,200
Woollen stuffs,	81,300	Linen called platile,		602,100
Ditto filk,	430,700	treilis,		892,700
Bours d'æft,		coutis hemp,		432,000
Silk gauzes,		Sail Cloth, -	•	157,700
Silk handkerchiefs, -		Candles, -	-	50,300
Silk ribbons,	374.400	Yellow wax,	•	1,317,900
Ribbons of wool, -		Cordage, -	-	99,000
Thread ribbons, -		Horfe-hair, -	•	59,000
Ribbons of thread and wool,		Raw hider, -	-	2,80;,400
Linen, flax and hemp, mixed,		Distilled waters and oils,	•	875,500
Linen of flax,	4,849,700	Effences, -	•	126,500 Drelles.

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Dreffes,	liv.	calves.	liv.
	91,200	calves.	115,200
Oil of grain,	248,300	nares and rabbits,	78,600
Corks,	219,300	Quills, Bed feathers,	143,900
m plank,	97,100	Bed teathers,	81,700
Skins,	873,400	Hog and wild boar hair, -	148,400
goats and kids, -	148,400	Coaches,	783,900
	Ed	ibles.	
Almonds,	140,600	Various wines,	684,900
Butter,	880,100	Defert wines	362,200
Salt beef,	1,716,400		302,200
Salt pork,	181,600	Live-Rock.	
Cheefe,	3,352,700	Cattle of all forts,	31,800
Fruite,	238,100	Oxen.	1,355,200
Lemons and oranges, &c. (in No.		Sheep,	1,087,000
17, 43,000),	731,000		276,100
Sweetmeats, -	52,600	Cows and bulls,	1,264,800
Dried fruits and figs, -	254,600	Calves.	
Dried grapes,		Horses,	89,300
Wheat,	5,347,900		2,052,900
Rye,	139,800		148,400
Barley,			
Oil of Olives, -	25.615.700	Drugs.	67,300
Legumes,	\$50,000	Gaul nuts,	313,000
Vermicelli,	257.200	Madder, -	476,600
Salt,,	113,800	Roots of Allifary,	216,300
, etcus edibles	A0.8co	Saffranam, -	578,700
N.41	181.500	Shumac.	
t may of wine, -	1.151.000	Shumac,	73,200 87,600
corn, -		Tobacco leaf,	
Liqueurs and lemon juice, -	62,900		5,993,100
	Exports the	fame Year.	
Various woods,	80,600	Laces of thread and filk,	445,300
Plank, -	66,300	Wnollen cloth,	15,530,900
Pitch and tar,	255,700	Various stuffs,	122,300
Common ashes,	152,000	Woollen stuffs,	7,491,300
Charcoal,	70,600	Stuffs of thread and wood, -	109,300
Coals,	419,000	hair,	3,6,5,700
Grains,	148,900	hair, hair and wool, richin gold, Silk ftuffs,	633,600
Colefeed,	144,900	richingold,	1,538,500
Garden-feeds,	75,700	Silk stuffs, -	14,834,100.
Flax-feed,	248,500	Stuns mixed with filk, -	649,600
Bours of filk,	94,700	Silk gauzes,	5,452,000
Fiemp,	47,100	Thread and filk gauzes, -	200,000
Thread of flax and hemp, -	143,400	Thread and cotton handkerchiefs.	405,800
Wool,	1,576,300	Silk handerchiefs, -	118,000
Silk, →	2,657,600	Silk handerchiefs,	1,231,900
Boneterie of thread, &c	175,100	Linen of flax and hemp mixed,	12,427,200
filofel, -			1,727,800
Woollen flockings,	365,500	flax,	340,300
Woollen caps,	. 413,100	Cambric and linen, -	6,173,200
Boneterie of filk,	3,375,100	Linen of thread and cotton.	291,400
Hats,	86,200	- fiamoifes, -	1,047,600
Boneterie of hair and wool,	910,200	fiamoifes, hemp,	344,300
Silk laces	2,589,200	Candles,	78,700
		•	
			Wax

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11v. 12,690 72,490 33,490 85,300 91,100 55,800 25,000 19,400 59,500 69,500

99,200 502,100 892,700 132,000 157,700 503,000 99,000 59,000 805,400 875,500 126,500 Dreffes,

	liv.)		
Wax,		Raw ditto, -	• **	liv.
Wax candles		Dried ditto.	•	131,500
Woollen blankets		Prunes dried.	•	69,600
Raw leathers.		Grapes,	•	791,700
Prepared leathers,	304,500	Wheat	•	324,200
Leather curried, -	1,7,700	Pue	•	2,608,300
tanned, -		Meslin and Maize.	-	239,400
Distilled water and oils -		Indian corn,		52,700
Gloves of Skins,	62.000	Barley,	•	633,100
Grenoble,	. 491,700	Leanmes	•	321,100
Dreffes		Oil of Olives	•	558,600
Oil of grains,	308,100		•	1,346,100
Cork, -	65,500		- -	361,800
in plank,	110,600			75,200
Cabinet ware,		Wine brandy, -		2,189,800
Willow ware,		Corn ditto, -		11,035,100
Cole feed cakes,		Liqueurs, -		1,045,500
Parchment.		Wines, -	_	205,300
Perfumery.		Wines of Bourdeaux,		6,807,900
Various skins,		Vinegar.	-	124,400
Skins of goats and kids, -	1,6,800		_	108,600
- calves prepared,	448.600	Oxen (No. 7659),		1,088,200
ficep ditto, -	112,500	Sheep (No. 104,990),	_	1,017,200
calves curried,	1,571,100	Hogs.		965,800
fheep and calves tanned,		Cows and bulls, -		227,000
Feathers prepared, -		Horses, -	-	455,700
Soap,	1,376,700		-	1,509,000
Various edibles, -	49,100	Saffron		2,9 200
Almonds	450,800	Oil of terebinth, -		46,000
Butter, -	118,400	Terebinth, -	-	128,400
Salt meat,		Verdigrife, -	•	266,300
Flour,		Tobacco leaf, -		418,400
Cheese,		rappé, -	•	653,100
Various fruits,	279,000			033,,00
	• • •	•		

N. B. The provinces of Loraine, Alface, and the three bishoprics, are not included in this account, nor any export or import to or from the West Indies.

Total export, import,		307,151,700 livres. 271,365,000
Balance, -	•	35,786,700=£.1,565,668 flerling.

Imports into France in 1787.

***	liv.	liv.
Steel from Holland, Switzerland, and	Coals from Engl d, Flauders, and	4
Germany,	862,000 Tufcany,	5,674,000
Copper,	7,217,000 Woods from the Baltic,	5,40,000
Tin from England, -	885,000 Woods fewillard & mercin,	1,593,000
Iron from Sweden and Germany,	8,469,coo Cork from Spain,	262,000
Brafs from ditto,	1,175,000 Pitch and tar,	1,557 000
Lead from England and the Hanseatic	Ashes, foda, and pot-ash,	5.762,000
towns,	2,242,000 Yellow wax,	2,260,000
Seel manufactures from Germany and	Garden freds, flax, and miller,	1,115,000
England,	4.927,000 Madder and roots of Allifary,	962,000
		Wheat,

			liv.		liv.
Wheat, -			8,116,000	Goat's hair from Levant, -	1,137,000
Rice		•	2,040,000	Briftles of hogs and wild boars,	275,000
Bailey, -	-	-	375,000		3,111, 00
Legunies, -			945,000	Raw wool,	20,884,000
Fruits, -		•	3,000,000	Woollen stuffs,	4,325,000
Butter.			2,507,000	Raw filk	28,266,000
Salt beef and pork,		-	2,960,000	Silk manufactures,	4,154,000
Cheefe, -	-		4,522,000	Flax,	6,056,000
Oil of Olives,		-	16,645,000	Linens of flax,	11,955,000
Brandy of corn,	-		1,874,000	Hemp,	5,040,000
of wine,	-		3,715,000		6,544,000
Wines, -	-	•	1,489,000		nd
Beer, -		-	469,000		16,494,000
Oxen, theep, and hogs,		-	6,6.6,000	Cotton manufactures, - +	13,444,000
Horfes and mules,	-	-	2,911,000		14,142,000
Raw hides,	•	-	2,707,000	Drugs, spices, glass, pottery, books, fe	2-
Skins not prepated,	•		1,180,000	thers, &cc. &cc.	61,820,000

liv. 11,500 19,600 11,700 14,200 18,300 19,400 12,700 13,1100 12,1100 158,600 161,800

75,200 87,800

35,100 45,500 05,300 07,900 50,900 24,400 108,600

017,200 065,800 127,000 155,700 009,000 1,9 200 46,000 128,400 266,300 418,400 653,100

ded in

erling.

liv.

.674,coo .40²,000 ,593,000 .262,000

262,000 .762,000 .260,000 .115,000 .962,000 Wheat,

Exports in the same Year.

	liv.	liv.	
Timber and wood of all forts, -	166,000	Butter, 88,6	00
Pitch and Tar,	317,100	Salted meat, - 487,70	00
After for manure,		Preferved fruits, 1,518,6	00
Charcoal,	31,300	Corn of all forts, except hereafter	
Vetch hav	12,000	named, 1,165,6	00
Garden feeds, flax-leed, &c	988,500	Wheat, 6,559,90	00
Greafe, -	17,300	Legumes, '949,2	CO
Hops, -	105,600		
Tallow-loaves,	145,500	Honey, 644,6	00
Cocoon filk refuse,	41,500	Eggs, 99,8	
Threads of all forts, -	241,800	Salt, - 2,322,5	
Hemp,		Poultry, 35,7	
Wool, raw, and fpun, -	4,378,705		
Flax, -	22,800	Brandy of wine (114,014 muids,) 14,455,6	
Rabbits' wool, • •	10,400	Liqueurs, - 234,0	
Silk,	628,000		
Starch, • • •	32,200	Bourdeaux (201,246 muids,) 17,718,1	
Candles,	131,900	Vin de liqueurs, - 10,0	
Hoiles,	41,100		
Wax,	307,800		
Cordage, -	268,000	Mules, horfes, alles, - 1,453,7	
Tanned leather,	1,280,300	Juice of len ens, 60,0	
Raw leather,	116,000		
Distilled waters and oils, -		Liquorice, 24,6	
Pigeon's dung,	37,000		
Spirit of wine,	144,700		
l'sfences,	10,000		
Staves,	22,800		
Gloves,		Terebinth, 33,1 Turnfole, - 12,2	
Linfe d-oil,	174,×00		
Corka,		Verdigrise, 512,4 Cloth, 14,242,4	
Cole-feed oil cakes	4.9,500	الأنفال	
Shee, roebuck, and calve-skins tanned,	2,705,200		
Feathers for beds,	51,100		w
Soap,	1,752,800	Or time campine, 5,2,20,000 nv.	,
Almonds,	850,500		
VOL. IT,	1	ı x	tal

Total exports, inclu	ding the	articl	es not he	re minuted,	349,725,400 liv	•
imports,		_		-	310,114,000	
Balance,		-	-	•	19,:41,400	£.1,729,936 fterling

EXPLANATION.—The contraband trade of export and import has been calculated, and the true balance found to be about 25,000,000 liv. (1,003.7501,) the provinces of Loraine, Alface, the three biftoprice, and the Woft-Indies, not included.

. Observations.

The preceding accounts of the trade of France, for these two years, are correct in all probability in the articles noted; but that they are imperfect there is great reason to believe. In 1787 there is an import of raw metals to the amount of above twenty milhons: but in the account of 1784 there is no fuch article in the lift, which is plainly an omiffion. And though coals are among the exports in 1784, there are none in the imports, which is another omiffion. In the manufactured articles also are various omiffions, not easily to be accounted for, though the treaty of commerce explains some articles, as that of cotton manufactures, &c.: the idea to be formed of the exports and imports of France should be gathered from an union of the two, rather than from either of them separate. No idea, thus to be gained or acquired by any other combinations, will allow for one moment the possibility of a balance of commerce of 70,000,000 livres, (3,062,000l.) in favour of France, which Monf. Necker has calculated it to be, in his book, De l'Administration des Finances, and which calculation the Marquis de Cassaux, in his Mechanism des Societés, has resuted in an unanswerable manner. It will be curious to examine what is the amount of the imports of the produce of land, minerals excluded.

In 1784 the imports of the	produce of	In 1787 the fame articles are,					
land amounted to,	liv.	Wool, -		liv. 20,884,000			
Wool,	25,925,000		•	28,266,000			
Silk,	29,582,700	Hemp and flax,	•	11,096,000			
Hemp and flax, -	5,494,800	Oil,	•	16,645,000			
Oil,		Live stock,		29,079,000			
Live stock and its produce,	18,398,400		•	11,476,000			
Corn,	5,651,500	Tobacco,	• •	14,1.;2,000			
Sundries,	24,800,700	Sundries,	- •	24,206,000			
	135,558,800			155,794,000			

She may be faid, therefore, to import in a common year about 145,000,000 lives (6,343,7501.) of agricultural products: and these imports are a striking proof, that I was not wide of the truth when I condemned so severely the rural occommy of France in almost every particular, the culture of vines alone excepted. For the courty, of all Europe, the best adapted by nature to the production of wool, to import so immensely, shews how wretchedly they are understocked with sheep; and how much their agriculture suffers for want of the fold of these sive or six millions, in which they are desicn not even for their own demand. The import of such great quantities of other forts of live stock also speaks the same language. Their husbandry is weak and languishing in every

part of the kingdom, for want of larger stocks of cattle, and the national demands cannot be supplied. In this trade of live stock there is, however, one circumstance which does the highest honour to the good sense and policy of the old French government; for though wool was fo much wanted for their fabrics, and many measures were taken for increasing sheep and improving the breed, yet was there no prohibition on the export either of live fheep or wool, nor any duty farther than for afcertaining the amount. It appears that they exported above 100,000 sheep annually; and this policy they embraced, not for want of experience of any other (for the export was prohibited for many years,) but finding it a discouragement to the breed, they laid the trade open, and the fame plan has been continued ever fince; by this fystem they are fure that the price is as high in France as amongst her neighbours, and consequently that there is all the encouragement to breed which fuch equality of price can give. The export of woollen manufacture in 1784, amounts to 24,795,800 livres, or not equal to the import of raw wool. On the general account, therefore, France does not supply herself; and the treaty of commerce having introduced many English woollen stusses, she is at present further removed from that supply. Considering the climate, soil, and population of the kingdom, this state of her woollen trade certainly indicates a most gross neglect. For want of having improved the breed of her sheep, her wools are very bad, and she is obliged to import, at a heavy expence, other wools, fome of which are by no means good; and thus her manufactures are under a heavy disadvantage, on account of the low state of agriculture. The steps she has taken to improve her wools, by giving pensions to academicians, and ordering experiments of enquiry upon obvious points, are not the means of improvement. An English cultivator, at the head of a sheep farm of three or four thousand acres, as I observed above, would, in a few years, do more for their wools than all the academicians and philosophers will effect in ten centuries.

BAYONNE.—Trade here is various, the chief articles are the Spanish commerce, the Newfoundland fishery, and the coasting trade to Brest, Nantes, Havre, Dunkirk, &c. they have an export of wine and flour, and they manusacture a good deal of table linen. They build merchant ships, and the king has two frigates on the stocks here under stated roofs. Of a merchantman, the workmanship alone amounts to about 15 livres a ton. They reckon two thousand failors and sishermen, including the basque men, about sixty ships of different sizes, belong to the place, eight of which are in the American trade, seventeen in the Newfoundland sishery, of from eighty to one hundred tons average, but some much larger; the rest in the Spanish, Mediterranean, and coasting trades. — men here are paid in the Newfoundland sishery 36 liv. a month wages, and one quintal in five of all the fish caught. To Dunkirk 27 liv. to Nantes 45 liv. per voyage; to the coast of Guinea 50 liv per month; to Boston and Philadelphia 50 liv. to St. Sebastian 24 liv. the voyage; to Bilboa 36 liv. to St. Andero 40 liv. to Colonia and Ferrol 46 liv. to Lisbon and Cadiz 30 liv. a-month, and for three months certain.

BOURDEAUX.—All the world knows that an immense commerce is carried on at this city; every part of it exhibits to the traveller's eye unequivocal proofs that it is great; the ships that lye in the river are always too numerous to count easily; I guess there are at present between three and four hundred, besides small craft and barges; at some seasons they amount to one thousand or sisten hundred, as I was assured, but know not the truth of it; I rather question it, as it does not seem absolutely to agree with another account, which makes the number of ships that enter the harbour ten on an average every day; or, as afferted by others, three thousand in a year. It may be sufficient to say, at present, that here are every sign of a great and slourishing trade; crouds of men all em-

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livres that I rance of all nfely,

ici nt il live every part ployed, busy, and active; and the river much wider than the Thames at London, ani-

mated with so much commercial motion, will leave no one in doubt.

Ship-building is a confiderable article of their trade; they have built fixty ships here in one year; a fingle builder has had eight of his own on the stocks at a time; at present they reckon the number on an average from twenty to thirty; the greater number was towards the termination of the war, a speculation on the effect of peace; there are fixty builders who are registered after undergoing an examination by an officer of the royal navy; they reckon from two to three thousand ship-carpenters, but including the river Garonne for many leagues; also fifteen hundred failors, including those carpenters; the expence of building rifes to 51. a ton, for the hulk, masks, and boats; the rigging and all other articles about 41. more; thirty-three men, officers and boys included, are eftimated the crew for a veffel of 400 tons, eight men for one of 100 tons, and fo on in proportion; they are paid all by the month from 30 to 36 liv. fome few 40 liv. carpenters 40 to 50% a day, and fome 3 liv. There are private ship-owners, whose whole trade confifts in the possession of their vessels, which they navigate on freight for the merchants; they have a calculation, that ships last one with another twelve years, which would make the number poffeffed by the town three hundred, built by themfelves; a number I should apprehend under the truth; the Bretons and Dutch build also for

Ships of a larger burthen than feven hundred tons cannot come up to the town but in fpring tides.

The export of wine alone is reckoned to amount to eighty thousand tons, besides which

brandy must be an immense article.

HAVRE DE GRACE.—There is not only an immense commerce carried on here, but it is on a rapid increase; there is no doubt of its being the fourth town in France for trade. The harbour is a forest of masts; they say, a 50 gun ship can enter, I suppose without her guns. They have some very large merchantmen in the Guinea trade of 5 or 600 tons, but by far their greatest commerce is to the West-India sugar islands; they were once considerable in the fisheries, but not at present. Situation must of necessity give them a great coassing trade, for as ships of burthen cannot go up to Rouen, this place is the emporium for that town, for Paris, and all the navigation of the Seine, which is very great.

Sailors are paid 40 liv. a month.

There are thirty Guineamen belonging to the town, from 350 to 700 tons; one hundred and twenty West Indiamen; one hundred coasting trade; most of them are built at Havre. The mere building a ship of 300 tons is 30,000 livres, but sitted out

60,000 livres.

The increase of the commerce of Havre has been very great in twenty-sive years, the expression used was, that every crown has become a louis, and not gained by rivalling other places, but an increase nationally, and yet they consider themselves as having suffered very considerably by the regulations of the Maréchal de Castries, in relation to the colonies; his permitting foreigners to serve them with falt provisions, lumber, &c. opened an immense door to smuggling manufactures in, and sugar out, which France feels severely.

HONFLEUR .- The bason full of thips, and as large as those at Havre, I saw some of at

least 600 tons.

CHERBOURG.—Sailors 36 liv. to 40 liv. a month.

St. Brieux.—The ships belonging to this little port are generally of 200 tons, employed in the Newfoundland fisheries, carrying sixty men of all forts, who are paid

not by fhares, but wages by the voyage: feamen two hundred livres, to two hundred and fifty livres, and fome to five hundred livres.

Nantes.—The accounts I received here of the trade of this place, made the number of ships in the sugar trade one hundred and twenty, which import to the amount of about thirty two millions, twenty are in the slave trade; these are by far the greatest articles of their commerce; they have an export of corn, which is considerable from the provinces washed by the Loire, and are not without minoteries, but vastly inferior to those of the Garonne. Wines and brandy are great articles, and manufactures even from Switzerland, particularly printed linens and cottons, in imitation of Indian, which the Swiss make cheaper than the French fabrics of the same kind, yet they are brought quite across France; they export some of the linens of Bretagne, but not at all compared with St. Maloes, which has been much longer established in that business. To the American States they have no trade, or next to none. I asked if Bourdeaux had it? No. Markilles? No. Havre? No. Where then is it? Tout en Angleterre.

The accounts they give here of the trade to the Sugar Islands is, that Bourdeaux has twice as much of it as Nantes, and Havre to the amount of twenty-five millions, this will make it,

				liv.				
Bourdeaux,			•	60,000,000	And the prop	ortion of f	hips,	
Nantes,		-		30,000,000	Bourdeaux,	•	-	240
Havre,	-		-	25,000,000	Nantes,	•	•	1,20
					Havre,	•	•	100
				115,000,000				
Marfeilles,		•	•	50,000,000				460
					Marfeilles,	-	•	140
				165,000,000				
								600
But at Hause	. +h	nu to 1	le of .	•				

But at Havre they talk of 120.

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The whole commerce of these isless they calculate at 500 millions liv. by which I suppose they mean exports, imports, navigation, profit, &c. &c.

The trade of Nantes is not at present so great as it was before the American war; thirty ships have been building here at once, but never half that number now; the decline they think has been much owing to the Marishal de Castries' regulations, admitting the North Americans into the Sugar Islands, by which means the navigation of much sugar was lost to France, and foreign fabrics introduced by the same channel. The 40 livres a ton given by government to all ships that carry slaves from Africa to the Sugar Islands, and return home with sugars, and which I urged as a great favour and attention in government, they contended was just the contrary to a favour; it is not near equal to what was at the same time taken away; that of favouring all cargoes of sugar in ships under that description, with paying only half the duties, 2½ instead of 5 per cent. and which equalled 60 liv. per ton instead of 40.

A ship of 300 tons in the sugar trade thirty hands, but not more than sixteen or eighteen good ones, because of the law which forces a certain proportion of new hands every

West-India estates in general render to their owners at Nantes 10 per cent. on the capital so invested.

They affert, that if the East-India trade was laid open, numbers here would engage in it. There is a ship of 1250 tons now at Pambon, idle for want of employ.

A cir-

A circumstance in ship building deserves attention. It was remarked in conversation, that many Spanish ships last incomparably longer than any other; that this is owing to mastic being laid on under the copper bottom. Mons. Epivent, a considerable merchant here, has tried it and with the greatest success; copper bottoms all with copper bolts instead of iron ones.

Building a ship of 300 tons, 30 to 35,000 livres; ten now building.

L'Orient.—Every thing I saw in this port spoke the declension of the Indian commerce, the magazines and warehouses of the company are immense, and form a spectacle of which I had seen nothing of the kind equal, but the trade is evidently dead, yet they talk of the company possessing ten ships from 600 to 900 tons, and they even say, that sive have gone this year to India and China. In 1774,56, it was great, amounting to sixty millions a year. What activity there is at this port at present, is owing to its royal dock for building some men of war. It is the port at which the farmers general import their American tobacco, the contract of which was for 25,000 hogsheads, but dwindled to 17,000.

MARSELLIES. - I found here as at the other great ports of France, that the commerce with North America is nothing, not to a greater amount than a million of livres a year.

The great trade is that of the Levant.

I was informed here, that the great plantation of Monf. Galifet, in St. Dom. 190, has 1800 negroes on it, and that each negroe in general in the island produces gross 660

liv. feeding himfelf befides.

Wages of feamen 33 to 40 liv. a month; in the Mediterranean 33, America 40 liv. A ship of 200 tons building here costs for timber only 25,000 liv. of 300 tons 40,000 liv. of 400 tons 75,000 liv., the wood is from 50 to 70% per cubical foot; fitting out afterwards for fea, costs nearly the same.

West India Trade.

The following is the state of the trade in 1775, as given by Monsieur l'Abbe Raynal.

				Value.	Re exported from France.	Value of re- export.
40.00			hv.	liv.	lb.	liv.
Sugar,	-	•	166,353,834	61,149,381	104,049,866	38,703,720
Coffee,	•	•	61,991,699	29,421,099		23,757,464
ndigo,	•	•	2,067,491	17.573.733		9,610,423
Cacao,	•	•	1,562,027	1,043,419		
Rocon,	•	-	352,210	220,369		
Cotton,	•	-	3,407,157	11,017,892		
lides,			16,123			
Carret,		•	8,912	89,120		1,000
Canefice,	•		206,916	55,752		
Wood,	•	•	9,441,900	922,222		
Sundries,	•	_	7,77,79	1,352,148	4,,	41333
Silve r,	•	•		2,600,000		
				125,375,213		73,425,535

Ships that carried on Trade the fame Year.

				Ships				Ships.
Dunkerque		-	12.	13	La Rochelle,	•		24
Le Havre,				96	Bourdeaux,		•	220
Honfleur,				. 4	Bayonne,	-	•	9
St. Malo,	-	-		13	Marfeille,	•	•	71
Nantes,	-	-	•	112				
								562

In 1786, the imports from these colonies into France were,

			Mv.
St. Domingo,			131,481,000
Martinique,	-	•	23,958,000
Guadaloupe,	•	•	14,360,000
Cayenne,	-	-	919,000
Tobago, .		-	- 4,113,000
St. Lucie, nothir	ig directly.		•
	_		
			* 1.74,831,000

Of these,—Sugar, 174,222,000lb.—Coffee, 66,231,000lb.—Cotton, 7,595,000lb.
The navigation in 569 ships, of 162,311 tons, of which Bourdeaux† employs 246 ships of 75,285 tons.

In 1786 the import of raw fugar was greater than in 1784, by
Of white fugar, by
Of cotton, by
Of cotton, by
Of cotton, by
Of cotton, by

Cotton has been increasing in demand by foreigners, who took in 1785, more by 1,495,000lb. than in 1784; and in 1786 more by 1,798,000lb. than in 1785.

In 1784, France fent to Africa 72 thips of 15,198 tons. In 1785, the number 102 thips of 36,429 tons, and in 1786, the employed 151 thips of 65,521 tons, the cargoes worth 22,748,000 liv. of which navigation Nantes possessed 42 ships; the cargoe consisted of

			liv.		liv.
Arms,	•		617,000 Cowrie-shells,	•	1,250,000
Pitch and tar,		•	82,000 Coral,	-	265,000
Cafes, .	-	-	78,000 Cordage and fail	s, -	357,000
Salt meat, &c.		-	677,000 Cutlery, -	•	132,000

* Total in 1784 was 139,000,000 liv. What can Monsieur Begoueu, of Flavre, mean by raising this to 230, 00,000?—800 ships?—1200 ships?—25,000 seamen? and I do not know what other extravagances. Precis fur l'Importance des Colonies. 200, 1790, p. 3, 5, &c. Another writer states, 800 large ships, 500 small ones, and value 140 millions? Opinion de Mansieur Blin. p. 7. How these calculations are made, I du not conceive.

† Bourdeaux I take to be a place of greater and richer trade than any provincial town in the British do-

animons, Our great	Tons. Seamen.		Tons. Seamen.		Tons. Seamen.
Newcastle, which in		Whitehaven, .	- 53, 00 - 4, 00	Briftol,	33,000 - 4,070
1787 possessed of		Sunderland,	53,000 - 3,300	Yarmouth,	32,000 -
thipping, -	10 ,000 - 5,3 0	Whitby, -	46,000 - 4,200		ι ή,υφο .
Liverpool, -	72,000 - 10,000	j Hull, -	46,000 -	Dublin, -	14,000: :
•					Copper

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Ships

Copper, -			431,000	Handkerchiefs,	-	-	735,000
Woollen cloths,		•	393,000	Piaftres, -		•	514,000
Brandies,	-			Beads, &c		•	123,000
Stuffs of all forts,		•	566,000	Rice, -	•		257,000
Flour -	-	•	186,000	French linens,	•	•	2,205,000
Iron, -	-	•	446,000	Foreign ditto,	•	-	8,865,000
Oil of olives,	-	•		Bourdeaux wines,			655,000
Legumes, -			415,000	Other wines,	-	•	114,000
Liqueurs			400,000				

The returns to France in fix thips of 1180 tons, brought 355,000lb. of gum Senega, 37,000lb. of elephant's teeth, both worth 1,173,000 livres.

But the flave trade on French bottoms did not increase with the increase of the Afri-

can trade in general.

But as the produce increased, there seems reason to think, that foreigners partook of this trade.

These in French bottoms, the total numbers must be much more considerable, as appears from the following table of St. Domingo only:

Years.	No Negroes fold.	liv.	'Years.	Coffee fold.	Price.	
				lb.		
1783	9,370	15,6:0,000	1783	44,573,000 52,885,00	33,429,750	
178;	21,762	43,634,000	1785	57, 168,000	57,368,000	
1785	27,648	54,420,000	1786	52,182,000	57,398,000	
1787	30,839	60,563,000 61,936,000	1787	70,003,000 68,151,000	91,003,900	

It deserves observation, that while the quantity almost trebled in five years, the price rose continually.

France from France to thefe Mer in 1756

To St. Domingo	-			•	44,732,000 liv.
Martinique,	-	•	•,	-	12,109,000
Guadaloupe, -	-	-	•	•	6,274,000
Cayenne t,	-	-	-	-	- 578,000
Tobago,	•	•	•	•	- 658,000
St. Lucie, nothing					
					64,341,000

Mémoire Envoyé le 18 Juin 1790, au Comité des Rapports, par M. de la Luzerne, Ministre & Sic. d'Etat, 4to p 70. † la 1777, it was 600,010 livres.

		YO	UNG'S TRAVE	RLS IN FRANCE.	345
Confishing of			livres.	Confiding of	livres.
Salted beef,	-	• *	1,264,000	Muslins, French, foreign, and	
Stockings and cap	9.	•	722,000	Indian,	789,000
Hats, &c.	•		1,676,000	Mercery and clinqualerie	1,028,000
Cordage and fails,		•	2,667,000	Furniture,	374,000
Silk lace, .		•	791,000	Sundries,	804,000
Woollen cloths,		•	602,000	Shoes.	1,248,000
Stuffs of all forts,			1,442,000	Soap,	1,402,000
Brandy, -	-	•	467,000	Tallow and candles, -	1,420,000
Flour, -	•	-	6,515,000	French linens,	13,360,000
Iron, -	-	-	1,410,000	Foreign linens,	985,000
Cheefe		•	740,000	Bourdeaux wines	5,490,000
Oil of olives,		•	1,314,000	Other wines and liquors,	1,080,000
Linen, -			697,000	and injust,	.,,
Handkerchiefs,	_		1,696,000		64,342,000
Of which Bourd	eau:	k expoi	ts to the amo	unt of 33,761,000 livres. For oth, were 4,967,000 livres.	
Linnorts from the	ifle	8. 174.	821.000 livre	s.—Exports to them, 64,341,0	oo livres.
Balance against 1	Fran	ce. 210	0.400.000.		oo arrea
The exports in	786	to the	Ifles were left	than those of 1785 by 11,761	.ooo livres
' But the exports	OS	enegal	were greater	by 12,514,000 livres.	,,000 111163.
The decreefs were	:-	manuf	Shires	oj 12,3.4,000 miles.	

The decrease was in manufactures.

5,000 4,000 3,000 7,000 15,000 55,000 5,000 4,000 enega, e Afri-

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Confisting

Linens in 1784, 17,796,000 livres.—1786, 13,363,000 livres.

August 30, 1784, in the Ministry of the Maréchal de Casaries, foreigners were permitted, under certain regulations, to trade to the French sugar islands, after a spirited controversy in print for and against the measure. The trade of 1786, in consequence of this arret, was as follows:

of this arret, was as follows:			
Imports in the Isle	rs.	Exports from Ditto.	
	livres.	livres.	
From the United States,	13,065,000	To the Americans, - 7,263,000	0
English, -	4,550,000	English, 1,259,000	•
Spaniards, -	2,201,000	Spaniards, - 3,189,000	
Dutch, -	801,000	Dutch, 2,030,000	
Portuguese, -	152,000	Swedes and Danes, 391,000	
Danes, -	68,000	39,,500	_
Swedes, -	41,000	14 120 000	_
Dwedes,	4,,000	14,132,000	,
	20,878,000		•
•	20,070,000		
	Navigation of	this Trade.	
Imports.	9 9	Exports.	
Ships.	Tons,	Ships. Tons.	
American vessels, 1,392 -	- 105,095	American, - 1,127 - 85,403	,
French, - 313 -		French, 534 — 13,941	,
English, - 189 -		TO U.O.	
		2 10	
Spanish, - 245 -			
Dutch, Portuguese,	· · · · · · · · · · · · · · · · · · ·	Dutch, &c 32 — 1,821	
Swedes, and Danes, 34 -	- 2,229		
		2,095 - 117,799	
2,102 -	- 133,109		
VOL. IV.	YY	As	į

As the cultivation and exports from the isles in 1786, were greater than in 1784, the demand for French manufactures ought to have been greater also; but this was not the case;

Export of French tinens to	the ifles in	1784,	17,796,000 liv.
		1786,	13,363,000
Aulns of French linen		1784,	7,700,000
		1785,	5,200,000
		1786,	6,100,000

It would have been found so, if the arret of August 30 had not opened the colonies to foreigners, who introduced manufactures as well as lumber and provisions. It is a great question, whether this was right policy; the argument evidently turns on one great hinge; the peculiar benefit to the mother country, from possessing colonies, is their tupply; to fell them whatever they demand, and to fecure the navigation dependent. It is not, to be fure, of fugar and coffee that nations plant colonies; they are fure of those, and of any other commodities if they be rich enough to pay for them; a Ruffian or a Pole, is as certain of commanding fugar as a Frenchman or an Englishman; and the governments of those countries may raise as great a revenue on the import, as the governments that possess the islands. The peculiar benefit, therefore, of colonies, is the monopoly of their supply. It is in vain to fay, that permitting the colonists to buy what they want at the cheapest and the best hand, will enable them to raise so much more fugar, and tend ultimately to the benefit of the mother country; fince, let them grow as rich as possible, and increase their culture to any degree whatever, still the advantage of the mother country arises from supply; and if she loses that to gain more fugar, the lofes all for which the possession is definable. It would be right for every country to open her colonies to all the world on principles of liberality and freedom; and still it would be better to go one step farther, and have no colonies at all. The fugar islands of all nations, in the West Indies, including the great island of Cuba, are confiderable enough to form an independent free nation; and it wants not many arguments to flew, that the exiftence of fuch an one would be far more beneficial to the English, French, and Spaniards, than the possession of those islands as colonies. To return, however, to the arret of August 3, there is reason to believe, that the policy which induced the Mar, chal de Caltries to alter the existing laws relating to foreigners was questionable, and attended with evils, in proportion to the extent of the trade that took place in confequence.

The refult of the French fugar trade refembles nearly that which England carries on with ner fugar colonies, namely, an immense balance against her. We have writers who tell us, that this trade ought to be judged by a method the reverse of every other, the merit of it depending not on the exports, but on the imports: I have met with the same idea in France; and as it is an object of very great consequence in the national economy, it may be worth remarking,—1. That the advantages resulting from commerce, are the encouragement of the national industry, whether in agriculture or manusactures; and it is unquestionably the exports which give this encouragement, and not the imports of a trade, unless they are the raw materials of future labour. 2. The real wealth of all trade consists in the consumption of the commodities that are the object of such trade; and if a nation be rich enough to consume great quantities of sugar and cosses, she has undoubtedly the power of giving activity to a certain quantum of her own industry, in consequence of the commerce which such consumption occasions, whether the sugar be the product of her own colonies, or those of any other power.

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3. The taxes levied on West-Indian commodities are no motive whatever for esteeming the possession of such colonies beneficial, since it is the consumption that pays the tax. and not the possession of the land that produces the commodity. 4, The monopoly of navigation is valuable no farther than as it implies the manufacture of flup-building and fitting out; the possession of many failors, as instruments of future wars, ought to be effected in the same light as great Russian or Prussian armies; that is to say, as the means of ambition; and as the instruments of wide-extended misery *. 5, The possesfion of fugar islands is the investment of immense capitals in the agriculture of America, instead of the agriculture of France: the people of that kingdom starve periodically for want of bread, because the capitals which should raise wheat in France are employed on fugar in St. Domingo. Whatever advantage the advocates for colonies may be fupposed to see in such possessions, they are bound to shew, that the investment of equal capitals in the agriculture of France would not be productive of equal and even of infinitely superior benefits. 6, It is shewn, in another place, that the agriculture of France is, in the capital employed, 450,000,000l. inferior to that of England; can any madness, therefore, be greater than the investment of capitals in American agriculture for the fake of a trade, the balance of which is above 100,000,000 livres against the mother country, while nothing but poverty is found in the fields that ought to feed Frenchmen? 7, If it be faid, that the re-exportation of West-Indian commodities is immense, and greater even than the balance, I reply, in the first place, that Mons. Necker gives us reason to believe, that this re-exportation is greatly exaggerated; but granting it to rife to any amount, France bought those commodities before she fold them, and bought them with hard cash to the sum of the balance against her; first losing by her transactions with America the sums she afterwards gains by exporting to the north. The benefit of fuch a trade is nothing more than the profit on the exchange and transport. But in the employment of capital, the lofs is great. In all common trades, such as those she carries on with the Levant, or with Spain, she has the common profit of the commerce, without invelting any capitals in producing the commodities she buys; but in the West-Indian commerce she invests double capitals, to produce the goods she fells, and equally to produce the goods she buys. 8, If it should be faid that St. Domingo is not to be considered as a foreign country, with which France trades, nor a colony, but as a part of itself; and that the balance between them is like the balance between them and the provinces, then I reply, that it is so ill situated a province, that to encourage a deviation of capitals from all other provinces to be invelled in this, is little short or madness; first, from distance and cultivation by slaves, it is insecure. If it escapes the attacks of European foes, the natural progress of events will throw it into the hands of the United States. Secondly, it demands a great navy to defend it; and confequently taxes on all the other provinces, to the amount of two millions sterling per annum. Of what expence to Languedoc, is the possession of Bretagne? Its proportion of the common defence. Is this to with St. Domingo? France pays a marine of two millions, but St. Domingo does not pay one shilling to defend France, or even to defend itself. In common sense, the possession of such a province ought to be deemed a principle of poverty and weakness, rather than of riches and of strength. 9, I have

^{*} Prejudices of the deepest root are to be eradicated in England before men will be brought to admit this obvious truth

Those prejudices took their rise from a dastardly fear of being conquered by France, which government has taken every art to propagate ever since the revolution, the better to promote its own plans of expense, profusion, and public debts. Portugal, Sardinia, the little Italian and German States, Sweden, and Denmank, &c have been able, deficient as they are in government and in people, to defend themselves; but the British isses, with listeen millions of people, are to be conquered!!

converfed on this subject at Havre, Nartes, Bourdeaux, and Marseilles; and I have not yet met with a man able to give me one other folid reason for such a system than the fact that agriculture in the West Indies is profitable, and not so in France. The same argument is used, and with equal truth, in England. I admit the fact; and it recurs at once to the pernicious doctrine of laying fuch taxes, restrictions, prohibitions, and monopolies on land at home, that men inclined to purfue agriculture as a trade must go with their capitals into another hemisphere, in order to reap an adequate profit. But change this wretched and abominable policy; remove every tax, even to the shadow of one on land; throw all on confumption; proclaim a FREE CORN TRADE; give every man a power of inclosure. - In other words give in the Bourbonnois what you have given in Domingo, and then see if French corn and wool will not return greater profits than American fugar and coffee. The possession of sugar islands, so rich and prosperous as those of France and England, dazzles the understandings of mankind, who are apt to look only on one fide, where they fee navigation, re-export, commercial profit, and a great circulation: they do not reverse the medal, and see, in the mischievous deviation of capitals from home, agriculture languishing, canals standing still, and roads impaffable. They do not balance the culture of Martinique by the landes of Bourdeaux; the tillage of St. Domingo by the deserts of Bretagne; or the wealth of Guadaloupe by the misery of Sologne. If you purchase the riches that slow from America by the poverty and wretchedness of whole provinces, are you blind enough to think the account a beneficial one? I have used no arguments against the French sugar islands that are not applicable likewise to the English: I hold them to be equal obstacles to the prosperity of both kingdoms; and, as far as experiment of the loss of North America goes, I am juffified by that vaft and important fact—that a country may lofe the monopoly of a diltant empire, and rife from the imaginary loss more rich, more powerful, and more prosperous!

If these principles be just, and that they are so is consirmed by an immense range of facts, what are we to think of a politician who declares, that the loss of Bengal, or the

Dutch withdrawing their money from our funds, would ruin England *?

Export of the Products of French Agriculture to the Wed-Indies, in 1787.

				livres.
Wine, brandy,	&c. ·		-	6,332,000
Edibles,				769,000
Salted meats,				971,000
Flour,				6,944,000
Legumes,			-	300,000
Candles,	-			500,000
Woods, cordag	re, &c.	-		2,869,coo
Raw materials		ires,	-	4,000,000
Furniture, cloa	ths, &c. the	raw materia	ds of,	2,000,000
Raw materials	of the export	s to Africa,		2,000,000,
Exports	of the foil,	·	livres.	26,685,000
Manufactured goo Materials, as above		l workman		

^{*} Confid. for he Richeffer et le Lance. 8vo. 1787. p. 492. In the same spirit is the opinion, that England, before the last war, had attained the maximum of her prosperity, p. 483.

Furniture,

- 16,549,000

	Young's	TRAVELS IN	FRANCE.	
Furniture, cloaths, Materials as above,	&c	-	livres. 10,136,000 2,000,000	
Exports to Africa, Materials, as above,			17,000,000	8,136,000
Sundry articles,	 .	٠		7,341,000
Of which 49,947,0	oo livres v	vere French pr	oducts and man	73,711,000 nufactures.
		Fisberies.		
trade is fo beneficial :	as that of	fishing; none i	n which a giver	r capital mak

large returns; nor any fo favourable to those ideal advantages, which are supposed to flow from a great navigation. The French were always very affiduous in pulhing the progrefs of their fisheries. Supposing them right in the principles of those efforts they have made to become powerful at fea, which, however, is exceedingly questionable, they have certainly acted wifely in endeavouring to extend these nurseries of maritime power.

		Ships	Tons.	
Newfoundland and Island fisheries,	1784,	— 328	- 36,342	
•			- 48,031	
			- 51,143	
Returns of cod, mackarel, and herrin				
			18,154,000	
•			19,100,000	
Quantity of Newfoundland dried cod,	,,1784,	- 230	516 quintaux.	
		- 241		
	1786,	- 272	398	
Cod exported to Italy and Spain,	- 17	84, -	1,835,000lb.	
			2,410,000	
			4,117,000	
great increase attributed to the arret of S	Sept. 1785	, which g	ranted bounties of	n

This g the export of cod of 5 livres, and of 10 livres per quintal. Most of the national fisheries are flourishing; they employed in 1786,

Ships. Ships. Tons, Tons. Irish from Dunkerque, Herrings, &c. - 928 62 . . 3,7:42 391 - 47,399 | Whale, 970 Dieppe does most in the fishing trade, possessing 556 ships, of 21,57: tons. The value of the merchandize embarked in 1786, on board the filling veffels,

3,734,000 livres, and the returns the fame year were, Herrings and mackarel, &c. 5,589,000 liv. Cod, 13,686,000 Whales, 53,000 Sundries, 200,000

19,528,000

Trade

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Trade with the United States.

The commerce which France carries on with the North Americans, is all the reward the reaps from having expended probably fifty millions ferling to fecure their freedom. Vifions of the deprefion of the British power, played indeed in the imaginations of the cabinet of Verfailles; but peace was fearcely returned before those airy hopes entirely vanished; every hour proved, that England, by the emancipation of her colonies, was so far from losing any thing, that she had gained ammensely: the detail of this trade will prove, that France was as much deceived in one expectation as in the other.

On an average of three years preceding the French revolu	ation, the im-	Alvres.
ports from America were		9,600,000
Ditto into the French fugar islands, -		11,100,000
		·
The state of the s	. 0	20,700,-00
Exports of France to North America, — — —	1,800,000	
Ditto from the illes, — — — —	6,400,000	8,200,000

Ces républicains, says Mons. Arnould*, se procurent maintenant sur nous, une balance en argent de 7 à 8 millions, avec laquelle ils soudoyent l'industrie Angloise. Voila donc pour la France le nec plus ultra d'un commerce, dont l'espoir au pit contribuer à faire sacrisser quelques centaines de millions et plusieurs générations d'hommes!

Trade to Ruffia.

It is commonly supposed in England, that the trade which France carries on with Russia is very beneficial, in the amount of the balance; and there are French writers also who give the same representation; the part in French navigation will appear in the following statement:

	livres.
Imports from Russia to France in 1788,	 6,871,900
From France to Russia,	 6,108,500

Balance against France, — 763,400
This, it is to be noted, concerns French bottoms only; the greatest part of the commerce being carried on in English and Dutch bottoms.

* De la Balance du Commerce, 179 tom. i. p. 234. † The navigation of the Balkic will appear from the following lift of ships which passed the Sound:

	178,	1765	1	1784	1 1785
		- 			-
English,	3173	2;35	Courlanders,	16	25
Danish.	1691	1789	Dantzickers,	190	261
Swedish.	2.70	2, 6	Breineners,	259	126
Pruffians,	1429	*358	Hamburghers,		176
Dutch,	1366	1571	Lubeckers,	75 63	79
Imperial,	167	66	Roftockers,		110
Portuguele,	38	28	Oldemburghers,	5 3	0
Spanish,	íg	15	French,	25	20
American.	13	20			
Venetian,	Š	4	!!	10,397	10,2.6
Ruffian	128	1	11		

Cormeré Recherches fur les Finances, tom. i. p. 385.

Balance,

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The whole commerce of France with the Baltic is faid to employ fix or feven hundred fhips of two hundreds tons *.

Trade to 1	/ 2°
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At the period of the Revol	ution the state	of the tra	de to India	was as follows:
In 1788,		andize.		53,300,000
Indian manufactures, Spices, tea and coffee Silk, cotton, ivory, w. China, &c. &c. — Drugs, —	of Moka,			livres. 26,600,000 6,000,000 1,150,000 493,000 367,000
				34,610,000
Exports from France				17,400,000 †
Exports to the ifles of	France and I	Bourbon or	n an average	2
of the fame three y	ears, —			4,600,0 0 0
Imports, —	_			2,700,000

By the regulation of May 1787, confirmed by the National Assembly, Port Louis, in the sile of France is made free to foreign ships, by which means it is expected that that port will become an entrepôt for the Indian trade.

Navigation.

There is not much reason for modern readers to be solicitous concerning the commerce or navigation of any country; we may rest assured, that the trading spirit which has seized all nations, will make the governments auxious to promote, as much as possible, whatever interests their commerce, though their agriculture is, at the same moment, in the lowest state of poverty and neglect. All the English authorities I have met with, respecting the navigation of France, are of a very old date; persons who are curious in these speculations, will probably be pleased with the following account:

Ships in France cleared outwards in 1788.

onips in France cicuren baracarus in 1766.		
Ships		Tons.
For the Levant and coast of Barbary, - 366		45,285
Whale fishery, — 14	_	3,232
Herring fishery, — 330	_	9,804
Mackarel fishery, — 437		4,754
Sardinia, — - 1,441		4,289
Fresh both in the ocean and Mediterranean, 2,668	_	11,596
Cod, — 432		45,440
All parts of Europe and the American States, 2,038		128,736
West Indies, ——— 677		190,753
Senegal and Guinea, — 105		35,22/
East-Indies. China, Isles of France and Bourbon, both by		
company and otherways, — 86		37,157
8,588		516,279

[•] Cormeré Recherches fur les Finances, tom. i. p. 362. † De la Balance du Commerce, tom. i. p. 382. N. B

N. B. The total navigation in Europe and America, either by French or foreign ships, amounts to 9,445 ships and 556,152 tons.

Monf. Arnould in his treatife De la Balance du Commerce, has given an account of the French navigation for the year 1787, which does not well accord with this. I infert an extract from it here that the reader may have the opportunity of comparing them.

Table of the Tonnage, French and foreign, employed in the Commerce of France in 1737.

	•		French.	Foreign.
Europe, the Levar	at, coast of Barbary, a	and United States,	461,582	532,687
India and China,		the sale of the sale of	6,67	
Coast of Guinea,	flave trade, Ifles of Fr	ance and Bourbon,	45,124	-
Sugar Islands,			16+,081	
Whale fithery,			3,720	Pithire or make beam or of
Coll fishery,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	53,400	\$100 AND ADDRESS TO -510-500.0
Herring ditto,	- Comment of Address		,602	
Mackarel ditto,	China water		5,166	
Anchovie ditto,	CO, May guar' to a		3,062	
Sundry fisheries,	(hadt solvers)		12,320	-
Coasting trade,	र्थ स्ट्रैं, का सं ^{च्या} न्य		1,004,7.9	6,123
			1,459,998	535,810
Total,	NOV-ANNEXASSA		2,007,661	

The immense increase of the navigation of England, appears by comparing this account with that first of commercial writers Lord Sheffield, for the average of three years preceding 1773.

Vanning tundo		Ships.	Tons.	Men.
Foreign trade, Coalting trade,	 	27 9 3458	335,583 219, 56	30,771
Fishing vessels,	 	14:1	25,339	6,774
Totals,	 -	7618	5 ⁸ 9,978	. 52,789

This is exclusive of Scotland *.

Monf. Arnould, however, affures us, that at the period of the Revolution, France possessed room state of the Revolution, France possessed room state of the Revolution, France possessed room, and the code and whale sistering the whole maritime commerce of exportation employing at the same time 580 000 tons of all nations; of which 152,000 tons were French.

† Balance du Commerce, tom. ii. p. 23. 8vo. 1791.

[.] Observ on the Commerce of the American States, by John Lord Sheffield of hadit, p. 160.

Cabotage (coasting Trade) the same Year.

French ships, Foreign ditto,	 	Ships. 22,360 60	_	Tous 9 97, 666 2,742
		22,420	-	1,000,408

N. B. There is no distinction between ship and voyage; if a ship clears out five times a-year, she is registered every voyage. The article Sardinia, which appears so large in ships, and so small in tonnage, must, I should suppose, be for a sistery on the coals of that island.

From the tonuage of the ships, as they are called, in the sisheries, it appears, that they are little more than boats: those in the herring sishery, are about 30 tons each—and in the mackarel, little more than 10 tons.

The navigation of England for a year, ending the 30th September, 1787, was,

English, — Scotch, — East Indiamen, Ireland, —	Ships. 8,7 t t 1,700 54	 Tonnage. 954,729 133,034 43,629 60,000		Men. 84,532 13,443 5,400
	10,465	 1,191,392	_	103,375

Without including the West-India trade, or that of the North American colonies, or the African or Asian, the Indiamen excepted.

Progress of the French Commerce *.

	•	Imports,		Exports.
1716 to 1720, peace,	average per annum,	65,079,000		106,216,000
1721 to 1732, peace,	-	80,198,000	_	116,765,000
1733 to 1735, war,	_	76,600,000	_	124,465,000
1736 to 1739, peace,	-	102,035,000		143,441,000
1740 to 1748, war,		112,805,000		192,334,000
1749 to 1755, peace,	_	155,555,000	_	257,205,000
1756 to 1763, war,		133,778,000		210,899,000
1764 to 1776, peace,		165,161,000	_	309,245,000
1777 to 1783, war,		207,536,000		259,782,000
1784 to 1738, peace,	_	301,727,000		354,423,000

It will not be useless to contrast this with the trade of England:

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France inaccuperies †. 8c. 000

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Men. 30,771 15,244 6,774 52,789

^{*} Moof. Arnould, of the Bureau de la Balance du Gommerce at Paris, afforts, I know not on what authority, that the English navigation in 1789 amounted to 2,000,000 tons.

VOL. 1V. Z Z Jupperts.

	Imports.		Exports.		Imports.		Exports.
1717,	6,346,768	-	9,147,700	1771,	12,821,995		17,161,146
1725,	7,094,708	_	11,352,480	1783,	13,122,235		15,450,778
1735,	8,160,184		13,544,144	1785,	16,279,419	-	10,770,228
1738,	7,438,960	_	12,289,495	1787,	17,804 000		16.869,000
1743,	7,802,353	-	14,623,653	1788,	18,027,000		17,471,000
1753,	8,627,029	_	14,264,614	17:9,	17,821,000		19,340,0.0
1763,	11,662,036	_	16,160,181	1790,	19,130,000	_	20,120,000

As the balance, or ideas of a balance, are a good deal vifionary, we shall find, by adding the two columns together, that the trade of England has fuffered no decline, but on the contrary, is greater than ever; it deserves attention, however, that the progress of it has not been nearly so rapid as that of France, whose commerce, in the last period, is 3 times as great as it was in the first; whereas ours has in the same period not much more than doubled. The French trade has almost doubled fince the peace of 17/3, but ours has increased not near so much. Now it is observable, that the improvements, which in their aggregate mark national prosperity, have, in this period of twenty-nine years, been abundantly more active in England than in France, which affords a pretty strong proof that those improvements, and that prosperity, depend on fomething elfe than foreign commerce; and as the force of this argument is drawn directly from facts, and not at all from theory or opinion, it ought to check that blind rage for commerce, which has done more mischief to Europe, perhaps, than all other evils taken together. We find, that trade has made an immense progrefs in France; and it is elfewhere flown, that agriculture has made little or none; on the contrary, agriculture has experienced a great increase in England, though very feldom favoured by government, but commerce an inferior one; unite this with the vall fuperiority of the latter in national profperity, and furely the lesion afforded by fuch facts needs no comment.

Of the Premiums for the Encouragement of Commerce in France.

The French administration has long been infected with that commercial spirit which is at present the disgrace of all the cabinets of Europe A totally sake estimate that has been made of Eugland, has been the origin of it, and the effect has been an almost universal neglect of agriculture.

The premiums paid in France for encouraging their commerce are the following, and the amount for a year, ending the 1st of May 1789, is added:

and the amount for a year, ending the 11t of May 1739, is added:	liv.
Expence of transporting dry cod to the American isles, and to various	417.
foreign countries, at the rate of 5, 10, and 12 livres per quintal, by the	
arret of 18th Sept. 1785, and 11th Feb. 1787. — —	547,000
Bounty payable on the departure of thips for the coast of Guinea, and	
for Mozambique, at the rate of 40 liv. per ton, by the arrets of 26th Oct.	
1784, &c. —	1,950,000
Bounty on the negroes transported into the Colonies at the rate of 60 to	
100 liv. a-head, by the arret of 20th Od. 1781, and of 160 liv. and 200	
liv. by that of the 10th Sept. 1706,	865,000

Bounty

Bounty for encouraging the navigation in the North Sea, at the rate	
of 3, 4, 6, and 10 liv. per ton, by the arret of 25th Sept.	4,000
Bounty on the export of refined fugar 4 liv. the quintal, by the arret	
of 26th May 1786, — — —	108,000
Encouragements given to seventeen manufactures, 39,000 7	- 100,000
Bounty of 4 liv. per 1000lb. of cast iren, granted to the soundries of	
Mont Cenis in Bourgogne, — — —	18,000
Bounty granted to the people of Nantuket established at Dunkerque	
for the whale fishery, at 50 liv. per ton of oil,	170,000
To the coal mines of the kingdom, — — —	100,000
	*3,862,000
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Bounty

I hope it does not at this time of day want much explanation, or many observations on this contemptible catalogue of the commercial merit of the old government of France. The sisheries and sugar islands, if we are to believe the French writers, are the most valuable and the most important articles of the French commerce.—How can this be, if they want these paltry bounties to assist them? St. Domingo is said in France to be the richest and most valuable colony there is in the world; I believe the fact; but if we were to consider only a premium on supplying it with slaves, we should be apt to imagine it a poor fickly settlement, scarcely able to support itself. If cultivation is vigorous there, it demands slaves without any bounty; if it is not vigorous, no bounty will make it so; but the object, real or pretended, of bounties, is to induce people to invest capitals in certain employments, which they would not so invest without such bounties. This is to profess giving bounties to the investment of capitals in American agriculture, rather than in that of France; the tendency is clear; but in this age it surely becomes a question, whether the lander of Bretagne and Aniou would not be as deserving of such a bounty as the forests of Hispaniola?

To remark on all these premiums is unnecessary; it is sufficient to coserve, that all, except that for coal, is absurd, and that that is so given as to be useless.

Of the Treaty of Commerce between Great Britain and France.

This celebrated measure was so thoroughly debated in England, that I shall not go again over ground trodden almost bare; but, with attention chiefly to brevity, give some French authorities upon it, which are but little known in England.

There are in most of the great commercial towns in France, societies of merchants and manufacturers, known under the title of Chambre du Commerce; these gentlemen affociate for the purpose of giving information to the ministry of the concern the trading upon which their opinion is demanded, and for other purposes that concern the trading interests of their respective towns. The Chambre du Commerce de Normandie, on occasion of this treaty, printed and dispersed (it was not fold) a pamphlet entitled, Observations sur le Traité de Commerce entre la France & L'Angle, rre.

In this work they inform their readers, that in order to draw a fair comparison between the advantages and disadvantages of the two kingdoms in manufactures, they

^{*} Compte Général, 1789. p. 186.

had deputed two merchants of Rouen, fufficiently understanding in the fabrics of Normandy, and who spoke English, to take a journey to the manufacturing parts of England, in order to acquire authentic intelligence, and upon their return they were defired to make a finilar tour through the manufactures of Normandy, that they might possess themselves of the knowledge requisite for a fair comparison; and from their reports, as well as from other materin's, the Chambre du Commerce speak in their ob-

observations:

"But while we are emba king in this undertaking, the alarm of our commerce increases every day, and becomes a real evil by a most active sale of every article of English manufacture, which can enter into competition with our fabrics. There is not an article of habitual confumption with which England has not filled all the magazines of France, and particularly those of this province, and in the greatest number of these articles the English have a victorious preponderance. It is afflicting to see the manufacturers who suffer by this rivalship, already Jimanung successively the number of their workmen, and important fabrics yielding in another manner to the same scourge, by English goods being sublituted in the sale for French ones; receiving a preparation agreeable to the consumption, named, marked, and sold as French, to the infinite prejudice of the name and industry.

"The Chamber is apprehensive of the immediate effect of the introduction of English cottons, whereof the perfection of the preparation, the merit of the spinning, united with their cheapness, has already procured an immense fale. A coup d'œil upon the folio 5 of the table of patterns of Manchester, and the Fauxbourg St. Sever, at Rouen,

will demonstrate the disadvantages of the latter.

"Our potteries cannot escape a notable prejudice; the low price of coals in England enables the English to underfell us in these articles 25 per cent.; considerable cargoes

have already arrived at Rouen.

"The 36,000 dozen pairs of flockings and caps of cotton, made in the generality, are the produce of 1200 looms. Within three months it is calculated, that at Rouen alone, more than one hundred have flopped. The merchants have made provision of English goods, for more than 30,000 dozen pairs of flockings and caps have already been imported.

"Manchester is the Rouen of England, the immense sabrication of cotton stuffs, the industry of the manufacturers, their activity, the resource of their mechanical inventions, enable them to undersell us from 10 to 15 per cent. Every circumstance of the fabric proves the riches of the master manufacturers, and the solicitude of government for

fupporting and favouring their industry.

In general their fluffs and their linens are finer, of a more equal fpinning, and more beautiful than ours; neverthelefs they are at a lower price, which proves the importance of their machines for carding and fpinning the cotton in a perfect and expeditious manner. By the aid of these united means, they slatter themselves at Manchester with equalling the mussions of India, yet the highest price of those hitherto wrought does not exceed 8s. a yard, but the fabric is so considerable, that they are not afraid to value it at 500,000 liv. a week; however one may be permitted to doubt of this, one must be arraced (effrage) at the immense in which the English have procured for this article, and the more so, as we have be specified, that the magazines of the company contained, within a sew months, to the value of 80,000,000 livres, in India mussile.

We do not know that the English have in their fabrics of linen any other inventions for simplifying the labour than the slying shuttle and the slax-mill, because the fibres fibres of flax are not adapted the application of machines for fpinning and carding; we are, however, affured that they have found means, by water-mills, to weave many pieces of lines at the fame time and in the fame loom.

"The price of coals in the preparation of cotton is of fome importance. The inhabitants of Manchester pay for coal only 9s. a ton, of 2000lb. (French) but at Rouen

it is 47 to 50 liv. the ton.

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"The English are forced to render justice to the cloths of Louviers, as well as to those of Abbeville and Sedan. They cannot dissemble that they think them more fost than their own, and that the colours are more lively and more seducing, but we cannot hope to sell them in England. The English, whether through a spirit of patriotism, or by the real agreement of their kind of sabric to the nature of their climate, prefer their cloths extremely fulled, and of colours very sembre, because the smoak of their coal sires, combined with the humidity of the atmosphere, depositing a greafy dust, might easily affect our colours so lively, but of little folidity; however it may be, the competition at present of the English in France cannot be very hurtful to the manuactures of Louviers, Sedan, and Abbeville; but as the English import as well as we the wools of Spain, they may certainly attain the beauty of the cloths of Louviers.

"The fabrics of Elbœuf, however prosperous, have not the same resources as the English ones of the same kind, excellent national wools proper for their fabric at a low price. We calculate that the ordinary cloths of five-fourths breadth, and 15 or 16 livres price per auln, can scarcely withstand the competition of the cloths of Leeds, called

Briftols, which cost only It liv. the auln.

"The cloths, ratines, espagnolettes, slannels, and blankets of Darnetal, have most of them a superiority over many similar English fabrics; but the low price of these last will render their competition fatal. We cannot too often recur to the advantages which the English possess over all the woollens of France, which are wrought like those of Darnetal, with the wools of France. The high price of our wool, and its inferiority in quality * to that of England is such, that this inequality alone ought to have induced the rejection of the treaty of commerce on the terms upon which it has passed. The manufacturers of Darnetal, Rouen, Beauvais, Amiens, Lille, and Rheims, may find it their interest to import English fabrics before they have received the last hand, which they can give cheaper than in England, and thus appropriate to themselves a profit in the cheapness and beauty of the English wools, by underfelling the similar fabrics entirely French.

"The English ratines cannot support the parallel with those of Andely, where also good kerseymeres are made in imitation of the English, but quite unable to stand against them. Before the treaty the English kerseymeres came contraband to France, and were therefore dear, but now all the magazines of the kingdom regorge with them, for at the same time that they are cheaper, they are in quality more perfect, of a more

equal grain, and lefs fubject to greafe.

"The manufacture of cloths at Vire has fallen from 26,000 pieces per annum to 8000. During the war they had an export to North America, but on the peace, the cloths of Leeds prefented themselves with a victorious superiority, and will hold it till we have perfected the breed of our sheep, and obtained sleeces of a greater length and weight.

^{*} The manufacturers of France possess no such iniquitous monopoly against the farmer, as makes the disgrace and mitchief of English agriculture.

"In regard to the stuffs of wool, called serges, molletons, slaunels, lordrins, satins, burats, camplots, baracans, calmandes, étamines, kerseymeres, sagathis, &c. which were surnished both to France and foreigners by Darnetal, Aumale, Beauvais, Amiens, Lille, Rhein's, and le Mans, they must fink under the competition of the similar manufactures of England. During the late war the Spaniards gave comiderable employment in these articles to the manufactures of Amiens, Lille, and Aumale. On the first report of a peace, they not only suspended their commissions, but even gave counter orders for what were already bespoke, the English having offered the same stuffs 20 per cent, cheaper than we could afford them.

"We may observe in fine, upon the conditions of the treaty, that the English have contrived to leave excessive duties upon all the articles, the trade of which would have offered advantages for France, and to prohibit the most interesting, to admit those whereof the reciprocity would be wholly to their own advantage; and to favour in a manner almost exclusively, in their importations, such as are made in English bottoms; circumstances which, united with the samous act of navigation, explain, in a great measure the disproportion which exists between the number of English and French vessels in the commerce of the two nations since the treaty, which is at least twenty to

one.

"The opinion we develope upon this treaty is general, and founded on a fimple reflection, that France furnishes twenty-four millions of confumers against eight mil-

lions which England offers in return *.

"The fituation of France cannot have been confidered in the prefent circumstances; at the same time that the consumption of its inhabitants, first, that natural and necessary aliment of national industry becomes a tribute to England, who has carried her fabrics to the highest degree of perfection; the French manufacturers and workmen, discouraged without labour, and without bread, may offer an easy conquest to Spain, who, more enlightened at present upon the real means of increasing her prosperity and her glory, developes with energy the defire of augmenting her population, of extending and perfecting her agriculture, and of acquiring the industry that shall fussilize for her wants, and exclude as much as shall be possible from her markets objects of foreign fabrication. We are affured that the workmen in the fouthern provinces pass successively into the different manufactures which are established; an emigration, which cannot but increase by the effects of the treaty of commerce with England."

The Chamber of Commerce in the fame memoir declare, that the English had not augmented their confumption of French wines in confequence of the treaty. And they dwell repeatedly on the superior wealth of the English manufacturers to that of the French ones, the influence of which, in the competition of every fabric, they feel

decifively.

The French ministry, the Archbishop of Sens at their head, to remove the impression which they seared would follow the preceding memorial of the merchants and manufacturers of Normandy, employed the celebrated accommisse Mons. du Pont, editor of the Fphemerides du Citoyen, a periodical week, printed 1767—1770, and since elected for Nemours into the National Assembly, to answer it, which he did in detail, and with ability: the following extracts will show the arguments in favour of the treaty.

Relative to the wine trade, your information has not been exact. I am certain that it has been confiderably augmented. The difference between the duties

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in England upon the wines of Portugal and France was 34% of our money the bottle; it is at prefent but 5% 8 den. in fpite of the proportional diminution made upon the wines of Portugal, an approximation of which must be very favourable to us. Authentic accounts of the custom-house at London have been sent to the department of foreign affairs, stating the quantity of French wines imported into that single city, and it rises from the month of May to that of December of the last year (1787) to 6000 tons of sour bariques each. In preceding years, in the same space of time, the legal importation has amounted only to 400 tons, and the contraband import was estimated at about an equality. The augmentation, therefore, for the city of London, is at least 5000 tons, or 20,000 bariques, which, at 1200 livres amount to 6,000,000 livres. The accounts of the balance of commerce for nine years preceding the last war mark 1500 tons as the mean export of our wines to England, Scotland, and Ireland. In 1784, that export did not exceed 2.00 tons. The city of London has therefore imported in the eight halt months of 787 four times more than the three kingdoms formerly imported in the course of a whose year.

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"The fale of vinegars, brandy, oil, foap, dried fruits, preferves, cambric, linens, and millinery, has much augmented. In particular, cambric and linens have doubled. "But this is no reason why the ministry should not, on one hand, exert themfelves with all activity to oblige the English to adhere to the terms of the treaty (which they have deranged by their tariffs and regulations of their customs); and, on the other, to favour the national industry, particularly that of the provinces of Picardy, Normandy, and Champagne, for whom, since the treaty, the competition of the English has certainly been very mischievous (trés ficheuse).

There are five branches of industry in which the English have over us at present in some respects an advantage more or less folid; in cotton stuffs, in small wootlens, in pottery, in feel, and in Father.

"In regard to cotton, Monf. Burneville is in possession of a machine, invented by his uncle, which spins thread of a degree of fineness till now unknown; even to 300,000 auths of thread from a pound of cotton. The finest muslims of Afia are made with threads of 140,000 auths to the pound. The government, after three years consideration, has at last determined on the report of M. Definarest to pure the this machine, and to distribute many of them among our manufactures.

"It is inconceivable that we have not a fuperiority over the English in the We have the raw material, and even sell to our rivals the greater part of the use. We have provisions and labour cheap rithan they have the initial which we want, or rather we do not want them, for we have them in growe have artists capable of perfecting them; we have already the foreign can give prizes, and we have acalemies to judge †.

"As to the woollen fatries, we have nothing to fear of competition in fine cloths, ratines, espagnollettes, molletons, and caps made of spanish wool; or in which it enters for the greater part. Our sabrication of this fort is superior to that of the English; our stuffs are softer and more durable, and our dyeing more beautiful. We can initate at will, all the sombre colours of the English sacries, but they cannot copy any of our lively colours, and especially our scarlet.

^{*} Not for; a man is fed cheaper in France, living badly, but provisions are not cheaper, and labour is really dearer, though nominally cheaper.

reasy desirer, though nominary cheaper.

† I mult finite at academies being named among the manufacturing advantages of krance: I wonder what academies have done for the manufactures of England.

"In the middling class of woollens, which comprizes the tricots and finall stuffs, we have a marked inferiority. The wools of which these are made are with us less time, Less brilliant, and higher priced. But this evil is not without a remedy.

"Of the next manufacture it may be observed, that the English potteries have been imported at all times into Loraine, without paying any duties, and yet that province is full of manufactures of pottery which prosper."

Relative to the fteel manufactures, Monf. du Pont cites the following cafe: "Monf. Doffer, after having been a long time at Clignancourt occupied for our English magazines to make bijoux of fteel, which have been fold for English, has been taken under the protection of government, who have furnished him with the means of carrying on business. At present established in the inclosure of the Quinze Vingts, he there fabricates, with at least as great perfection as in England, and at a lower price by 30 per cent. all the beautiful works in steel, watch chains, swords, &c. &c. &c."

Monf. du Pont then infifts at length on the great import of English manufactures, which took place clandestinely, not only from England directly, but by Flanders, Holland, Germany, and Liege, which it was found impossible to prevent, and contends, that converting such import to a legal one, to the profits of the state, was an object of no slight importance.

"It is some years since the manufacturers of Sedan, and after its example those of Louviers, Abbeville, and of Elbœuf, have raised the prices of their cloths 25 per cent. and not without some reason, imagining, under the influence of a spirit of monopoly, to benefit the undertakers of those fabrics. But to whatever reason it might be assigned, certain it is, that German cloths, which never came into the kingdom before, have, since this rise of price, sound a considerable sale in France, to the prejudice of the national manufactures; the treaty of commerce having been made at the time of the evil being felt, the whole effect has been laid, without much reason, to the operations of that treaty."

M. Du Pont in like manner examines the flate of the filk manufacture, which he shews to be at Lyons in the lowest state of misery and distress, owing to the war in the north of Europe absorbing those expences which in peace were otherwise employed; to the successful exertions in Spain for increasing the fabrics of that country; and to the failure of the crop of filk; yet while the declension of that manufacture had thus no shadow of connection with the treaty of commerce, yet happening at the same time, the evil, like all the others, has been attributed to its influence.

"At all events, the treaty of commerce, fuch as it is, is perhaps the only guarantee of peace between the two empires. I have the strongest reason to believe, that its perspective has hastened the concusion a year or two, and we have thus spared 400,000,000 livres of expence; the imposts which would have been necessary to pay the interest, the loss of blood, and the frightful chances which every war entrains in its suite. It is more than probable, that without it, we should for fix months past have been enga-

[•] The extravagance of this ridiculous affertion, carries in itself its own reply: if this cheapness arises from government premiums or affidance, it is a farce, and absolutely beyond any fair conclusion: if it is not from such affidance. I demand how it happens that this manufacturer has been established by government? A man who is not able to establish his own fabre, able to under-work, and at Paris too! the English steel solving appropriate in the such as the contrary must be admitted, that no capital at all will affect the business just as well. What satisfaction is here given to prove that the whole of this business was not, as in many other cases, a piece of charlestaineric in government? To please and delude the people by a cheapness gained by government paying the piper? Has the business taken root? Has it become a national object? or is it a Paris toy?

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ging in hostilities, the term of which would have been impossible to foresee. When France and England remain neuter and united, no war can be durable in Europe; for though other powers have cannons, foldiers, and bayonets, yet none of them have refources to support a war of any length; not even those who reckon upon a treasure, which would be dissipated in two campaigns at most. The only solid treasure is a good agriculture and an industrious people. The repose of the world, and above all our own, holds therefore almost solely by this treaty; which citizens, zealous without doubt, but certainly too little enlightened, would wish to see annihilated.

The argument which has been drawn from the population of the two kingdoms, founded on France containing twenty four millions, and England eight millions, is not just. France contains nearly twenty eight millions, and the three British kingdoms ele-

1; but the whole reasoning is a sophism, founded upon ignorance of the riches of the 1 wo nations. It is not on population that we are to calculate the means of buying and felling, of paying and being paid. Unhappily the greatest difference found between the two empires is not in their manufactures; that of their agriculture and crops is much more confiderable. The annual crops of England have been calculated with care at 2,235,000,000 liv. (97,781,25cl.) adding those of Scotland and Ireland, they cannot amount to less than 3,000,000,000 liv. (131,250,000l.) Those of France, calculated with great fagacity, after certain cases in some points, and on conjectures combined from all forts of views in others, have been valued at the lowest at 3,200,000,000 liv. and at the highest at 4,000,000,000 liv. (175,000,000l.) We have therefore, at the most, but a fourth more crop than England; but we have to fubfift a population two and an half times greater. Before we trade abroad we must live. Retrench from three milliards the easy subfishence of eleven millions of people; retrench from four milliards the subfiftence, a little more difficult, of twenty-eight millions of people, and you will foon fee that it is not the nation of twenty-eight millions that furnishes the best market for foreign commerce, and confequently for luxury, which can only be paid for with a fuperfluity.

The experience of all times has proved, that nations successively rival each other in manufactures. Spain debauches and carries off our workmen in filk; but she cannot take from us our cultivators, the nature of our foil, our happy exposition, nor the privileged products which we possess exclusively. It is therefore upon the products of cultivation that must be founded, in the most folid manner, the prosperity and commerce of a great empire.

And even as to fabrics, you fee by the example of the past, that excluding competition has left ours in an inferiority of which you complain. It cannot be necessary to prove to you, that the best method of raising the industry of a nation to a par with its neighbours, is by establishing such a communication as shall place unceasingly models and objects of emulation under the eyes of such as are inferior.

It is clear that by referving to the manufacturers of a nation the exclusive privilege of supplying it, we destroy among them a great part of the principle of that activity which ought to perfect their industry. Believing themselves sure of purchasers, and sure also of fixing their own price, they neglect, with all proprietors of exclusive privileges, to seek the means of fabrication the most economical, and those which would render their labour the most perfect.

Monf. du Pont enters into a detail of the course of exchange through fifty-seven pages, from which he deduces the fact, that the balance upon the trade, in consequence of the treaty, was in savour of France: from May 1787 to March 1788, he gives a table of exchanges, divided into three epochs; 1. From the 1st of January 1785, to the re-coin-

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age at the French mint in October; 2. From the recoinage to the treaty of commerce, from 1st November 1785 to last of April 1787; 3. From the treaty to the time of his writing, i. e. from 1st May 1787 to last of March 1788.

First Epoch.

Par of exchange counted on filver $28\frac{16}{7}\frac{6}{3}\frac{15}{3}\frac{7}{7}$, counted on gold 30.

January,	•	29 - 1 May	у, -	28 🛂	August,	•	2810
February,		$28 + \frac{13}{6}$ Jun	е, -	$28\frac{1}{36}$	September,	-	29 5
March,	•	28 33 July	,· -	28 1 1	October,	•	2918
April,	-	28 15					

From January to September 1784, exchange was at 30 and 31, and fell to 29, at which rate it was about 3 per cent. against France; but it fell in June to $28\frac{1}{7}\frac{1}{7}$, which was a loss of 4 per cent.; and in August the loss was at the height, or $4\frac{1}{7}\frac{1}{7}$ per cent. which sunk in October to $2\frac{1}{7}$ per cent.

Second Epoch.

Par of exchange by the alteration in the French money counted on gold $28\frac{15}{13}\frac{6}{13}\frac{6}{13}\frac{7}{16}\frac{7}{16}$ and on filver $28\frac{16}{13}\frac{4}{13}\frac{1}{13}\frac{7}{16}$.

Nov.	-	2916	May,	-	2917	Nov.	•	29TT
Dec.		2915	June,	-	29,5	Dec.	-	2977
Jan.	-	29 3 5	July,	-	29TT	1787Jan.	-	29 75
Feb.	•		Aug.	-	29 1 1	Feb.	-	29 1
March,	-		Sept.	-	2917	March,	•	2911
April,	•	29.7		•	2716	April,	-	2917

Upon this epoch, Monf. du Pont has a long observation concerning a supposed transport of old louis d'or from England to the French mint, which the chamber of commerce, in their reply, justly rejects.

Third Epoch.

Par as before.

1787 May		30-3	Sept.	-	2917 1	788 Jan.	•	2917
June	•	2917	Oa.		29 3 0	Feb.	-	29 1
July	-	29	Nov.	-	2939	March		2920
Aug.	•	21+7	Dec.	-	29 7			

During these eleven months, the mean rate has been $29\frac{1}{7}\frac{176}{10}$, or about $2\frac{1}{7}$, per cents in favour of France.

By the accounts of the Bureau General de la Balance du Commerce, the imports of English goods in France for the eight last months of 1787, amounted to 35,294,000 liv., and the export of French goods to England during the same time to 26,276,000 liv., a difference which Mons. du Pont attempts to convert into the favour of France, upon grounds not at all satisfactory.

The

The Chamber of Commerce, in their reply, affert, respecting the navigation employed, that from May to December 1787, there entered the ports of France 1030 English ships of 68,686 tons, whereas, in the same trade, there were only 170 French ships of 5570 tons.

In the same reply, the Chamber reject the reasonings of M. du Pont upon the course of exchange, and insist that it was affected by collateral changes, and by transactions not commercial.

I shall lay before the reader the refult of the treaty, both according to the English custom-house, and also by the registers of the Burcau de la Balance du Commerce at Paris; which, I should however remark, is beyond all comparison more accurate in its estimations; and whenever it is a question between the authority of the two in opposition to each other, I should not hesitate a moment in preferring the French authority; indeed it is certain, that in many articles the valuation attached to some denominations is as old as the reign of Charles II. though the real value is known to have quintupled.

English Account.

Export of British Manufactures to France.

		£.	s.	d.	1		£.	s.	d.
1769,	•	83,213	18	4	1784,	-	93,763	7	1
1770,	•	93,231	7	5	1785,	-	244,807	19	5
1771,	-	85,951	2	6	1786,	-	343,707	11	10
1772,	•	79,534	13	7	1787,	-	713,446	14	11
1773,	•	95,370	13	1	1788,		884,100	7	1
1774,	-	85,635	13	2	1789,	-	830,377	17	0

The rife in the years 1785 and 1786, may be attributed to the rage for every thing English, which, I believe, was then pretty much at its height; the moment the honour of the nation was fecured by wiping off the difgraces of the war of 1756, by the success of the American one, the predicction for every thing English spread rapidly. In order to shew the proportion which our export of manufactures to France bears to our exports to all the world, I shall insert the total account by the same authority.

We know that all these sums are incorrect; but we may suppose the incorrectness as great one year as another, and that therefore the comparison of one year with another may be tolerably exact. The following French accounts have been taken with singular attention; and as duties have been levied on every article, the amount may be more, but cannot be less.

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French Account.

Imparte	from	England	into	France	in	1788
Imports	110111	Lingiana	11110	A / WILLE	111	1/00.

,,,,,,,,,	liv.
Woods, coal, and raw materials, of which coal near 6,000,000 liv.	16,553,400
Other raw materials, not the direct product of the carth,	2,246,500
Manufactured goods,	19,101,900
Manufactured goods from foreign industry	7,700,900
Liquors (boiffons)	271,000
Eatables (comestible:) such as falt meat, butter, cheese, corn, &c.	9,992,000
Drugs, — — —	1,935,900
Groceries, — — — —	1,026,900
Cattle and horses, — — — — —	702,800
Tobacco, — — — —	843,100
Various articles,	187,200
West India cotton, and West India goods, none.	•

60,621,600

Exports from France to England, in 1788.

Exports from Trance to Linguista, in 1,000	liv.
Woods, coal and raw materials,	534,100
Other raw materials, not the direct product of the earth,	635,200
Manufactured French goods,	4,-86,200
Manufactured goods from foreign industry, -	2,015,100
Liquors, — — —	13,492,200
Eatables, — — —	2,215,400
Drugs,	759,100
Groceries, none,	
Cattle and horses, — — —	181,700
Tobacco, — — —	733,900
Various articles, — — —	167,400
Welt India cotton, — — —	4,297,300
West India goods,	- 641,100
	30,458,700

Explanation.—All manufactured goods, both English and foreign, imported by the English merchants have been under-rated about one-twelfth, which will add 3,238,800 liv. The French exports must also be increased for sinuggling, &c. &c.; so that there is great reason to think the real account between the two nations may be thus stated:

Exports from England to Fr	ance, gland,	**	63,327,600 3 3 ,847,470	
Balance against France,		_	29,480,130	

Total.

Total Exports of England to France	e in 1789,	•	liv. 58,000,000
Ditto of English manufactures in	1787,	-	33,000,000
	1788,	-	27,000,000
	1789,		23,000,000

Hence it appears, that the two custom-houses do not differ essentially in their accounts.

Before I offer any observations on these accounts, I shall insert a few notes I made at some considerable towns of the intelligence I received personally.

1787.—ABBEVILLE.—In discourse upon the effect of the new treaty of commerce with England, they expressed great apprehensions that it would prove extremely detrimental to their manufactures. I urged their cheap labour and provisions, and the encouragement their government was always ready to give to manufactures: they said, that for their government nothing was to be depended upon; if their councils had understood the manufactures of the kingdom, they certainly would not have made the treaty upon such terms; that there were intelligent persons in their town who had been in England, and who were clearly of opinion, that the similar English fabrics were some cheaper and others better, which, aided by sassion in France, would give them a great advantage; that provisions were by no means cheap at Abbeville, and the workmen in several branches of their fabrics were paid nearly as much as in England, without doing the work equally well, at least this was the opinion of some very good judges; and lastly, that all Abbeville are of this opinion.

AMIENS.—I had here some conversation to the same purport as at Abbeville; the whole town I was affured had been alarmed from the sirst rumour of the terms on which the treaty of commerce had been concluded; they are well convinced that they cannot in any one instance, as they affert, stand the competition of English goods. On my asking what reason they had for such an idea, the person I conversed with went into a warehouse, and bringing a piece of stuff and another of slannel, they were, he said English, and from the price at which they were gotten before the treaty, he drew the conclusion; he was also, he said, well informed of the prices in England. In the cotton sabric, he faid, the superiority was yet greater; in a word, that Amicus would be ruined, and that on this point there was but one opinion.

The manufacturers of all countries are full of these apprehensions, which usually prove extremely groundless. In all probability the effect would be as expected, if a counter stream of emulation and industry did not work against it. The introduction of English fabrics may be hurtful for a time, but in the long run may be beneficial, by spurring up the French manufacturers to greater exertions and to a keener industry.

BOURDEAUX.—The intercourse between this port and England has been increased a great deal fince the treaty. Warehouses of English goods are opened. The article which has hitherto sold the best, and quickest, is that of the Staffordshire potteries; the quantities of these which have been sold is very great: but the hardware sent hither has been found so dear, that it could not be sold in competition with French and German, except in a very sew articles. Of sidlery there are several shops opened that have sold largely. Beer has been tried, but would not do; the Dutch is still preferred for the West Indies as cheaper; that of England has been sold at 90 livres the barique, of 250 French bottles, and some of it arrived so bad as not to be merchantable. Wine

Total.

Eng.

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has increased in its export to England, but not so much as was expected; before the treaty it was eight thousand tonneaux a year, and it has not risen to twelve thousand; however the course of exchange is against England 4th, and wine, owing to the present failure of the crop, has increased in price 50 per cent. Brandy has also increased.

The English take only the two siril qualities of wines—or, rather they are supposed to do so; for their merchants established here mix and work the wine sent in such a manner, that the real quality of it is unknown: this is the account given us. Those two sirst sorts are now at 201 to 221, a barique, which is two hundred and sitty French bottles, and two hundred and seventy English ones. The other qualities are sold from 151 to 181, port charges, cask and shipping included; freight to London is 50s. a toa, besides 15 per cent. primage, average, &c. The French duty is 28 livres the tonneau, which has been lowered to 5 livres 5/; from last October to the first of January next, a regulation which it is said will not take place longer.

BEAUVAIS.—The opinion universal among the manufacturers here is, that the English fabrics are so superior in cheapness, from the wise policy of the encouragements given by government, that those of Beauvais, should they come in competition, must sink; so much of the sabrics here as are for the consumption of the lower people might perhaps stand by it, but not any others; and they think that the most mischievous war

would not have been fo injurious to France, as this most pernicious treaty.

LILLE.—I no where met with more violence of fentiment, relative to this treaty, than here; the manufacturers will not speak of it with any patience; they wish for nothing but a war; they may be said to pray for one, as the only means of escaping that ideal ruin, which they are all sure must flow from the influx of English sabries to rival theirown. This opinion struck me as a most extraordinary insatuation; for in the examination which took place at the bars of our Houses of Lords and Commons, this is precisely the town whose sabries were represented as dangerously rivalling our own, particularly the camblets of Norwich; and here we find exactly the counter part of those apprehensions. Norwich considers Lille as the most dreadful rival, and Lille regards Norwich as so formidable to her industry, that war and bloodshed would be preserable to such a competition. Such sacts ought to be useful to a politician; he will regard these jealousies, wherever sound, either as impertinence or knavery, and pay no attention whatever to the hopes, tears, jealousies, or alarms, which the love of monopoly always inspires, which are usually salle, and always mischievous to the national interests, equally of every country.

NAOTES.—In conversation here on this treaty with some very respectable commercial gentlemen, they were loud against it; insisted that France sent no fabrics whatever to England in consequence of it, not to the amount of a single sol; some goes, and the same went before the treaty; and that Figland has not imported more wine or brandy than usual, or at least to a very small amount; we know at present that this was not

correct.

Rouen.—The quantity of merchandize of all forts that has been imported here from England fince the treaty, is very confiderable, especially Staffordshire hardware, and cotton fabrics, and several English houses have been established. They consider

the treaty here as highly detrimental to all the manufactures of Normandie.

I am better fatisfied with the real fact than if it were, as the Chamber of Commerce of Normandie imagined, much more in favour of England; for as the benefit is more likely to laft, fo the treaty is more likely to be renewed; and confequently peace between the two kingdoms to be more durable. The balance of the manufacturing account does not exceed 14 millions, which is very far fhort of the French ideas, and muft,

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in the nature of things, lessen. The 18 millions of raw materials and coals, instead of being an import hurtful to the interests of French industry, is beneficial to it; and they themselves wisely consider it as such, and lamented the old duties on the import of English coal, asserting, that there ought to be none at all. Here are 10 millions of imports, and a balance of eight in direct objects of agriculture, as corn and meat. If a people will manage their agriculture in fuch a preposterous manner, as not to be able to feed themselves, they should esteem themselves highly obliged to any neighbour that will do it for them. Raw materials, including drugs, with cattle, corn, and horfes, very nearly account for the whole balance, great as it is, that is paid on the total to England; and as fuch objects are as much for the advantage of France to import, as for the benefit of England to export, the whole trade must, both in extent and balance, be deemed equally reciprocal, and of course equally tending to advance the prosperity of each kingdom. There is, however, a circumstance in which matters are very far from being reciprocal, and that is, in payments. The French are paid for their goods, whatever these may be, according to agreement; but that is very far from being the case with the complaints against the mode of dealing in France, not only in respect of payment, but also of want of confidence, fince their goods, fairly executed, according to patterns agreed on, are feldom received without dispute or deduction: and while they chearfully do justice to the punctuality of the Americans, Germans, &c. they put very little value on the French trade, speaking in general. It is the same with Birmingham, whose merchants and manufacturers affert strenuously, that the commercial treaty has been of no service to their town; the French having taken as largely their goods by contraband, before the treaty, as at present, through a different channel; with this change, that the Dutch, Germans, and Flemmings, with whom they dealt before, paid better than the French. circumflances are great deductions from the apparent merit of the treaty, which cannot be fairly ellimated, unless we could know the amount of our exports fent out clandeftinely before it was concluded. The manufacturers are certainly the best judges; and they unite, with one voice, throughout the kingdom, either to condemn it, or at least to affert its having been a mere transfer from one channel to another, and not an increafe. The henefit of it, however, as a political measure, which tends to establish a friendship and connection between the two countries, cannot be called in question with any propriety; for the mere chance of its being productive of peace, is of more confequence than ten fuch balances, as appears on the foot of the above mentioned account.

CHAP. XIX .- Of the Manufactures of France.

Picardie—Abbeville.—THE famous manufacture of Vanrobais has been described in all dictionaries of commerce and similar works; I shall therefore only observe, that the buildings are very large, and all the conveniencies seem to be as complete as expence could make them: the fabric of broad cloths is here carried on upon the account of the matter of the establishment, from the back of the sheep to the last hand that is given. They affert, that all the wool used is Spanish, but this must be received with some degree of qualification. They say that one thousand sive hundred hands are employed, of which two hundred and sifty are weavers; but they have experienced a great declension since the establishment of the fabric at Louviers, in Normandie. They have several spinning jennies, by which one girl does the business of forty-six spinners.

An establishment of this kind, with all the circumstances which every one knows attended it, is certainly a very noble monument of the true splendour of that celebrated

reign to which Monf. de Voltaire justly enough gave the title of Age; but I have great doubts whether it is possible to carry on a manufacture to the best advantage, by thus concentrating, in one establishment, all the various branches that are essential to the completion of the fabric. The division of labour is thus in some measure lost, and entirely fo in respect to the master of each branch. The man whose fortune depends entirely on the labour of the spinner, is more likely to understand spinning in perfection, than he who is equally concerned in fpinning and weaving; and it is perhaps the fame with respect to dresling, milling, dying, &c. when each is a separate business each must be cheaper and better done. The appointment of commis and overfeers leffens, but by no means gets rid of the difficulty. In viewing a manufacture therefore I am not fo much strack with that great scale which speaks a royal foundation, as with the more diffusive and by much the more useful signs of industry and employment, which spread into every quarter of a city, raife entire freets of little comfortable houses, convert poor villages into little towns, and dirty cottages into neat habitations. How far it may be necessary when manufactures are first introduced into a country to proceed on the plan followed by Louis XIV. I shall not enquire, but when they are as well established as they are at prefent, and have long been in France, the more rivals in finaller undertakings, which these great establishments have to contend with, the better it will generally be found for the kingdom, always avoiding the contrary extreme, which is yet worfe, that of fpreading into the country and turning what ought to be farmers into manufacturers.

Befides fine cloths, they make at Abbeville carpets, tapeftry, worsted stockings, barracans, a light stuff much worn by the clergy, minorques, and other similar goods.

They have also a small fabric of cotton handkerchiefs.

AMIENS—Abounds with fabrics as much as Abbeville; they make cottons, camblets, calimancoes, minorques, coarfe cloths; there is feareely any wool worked here but that of Picardy and a little of Holland, none of England, or next to none; they would get it they fay if they could, but they cannot. I examined their cotton stockings carefully, and found that 4 or 5 livres was the price of such as were equal to those I had brought from England, and which cost at London 2s. 6d.; this difference is surprizing, and proves, if any thing can, the vast superiority of our cotton fabrics.

BRETEUIL.—They have a manufacture here on a small scale of scythes and wood hooks, the former at 4.5% the latter at 30% the iron comes from St. Diziers, and the coals from Valenciennes. Nails are also made here for horse-shoes at 8% the lb. but

not by nailors who do nothing elfe.

ORLEANS.—The manufactures are not inconfiderable, they make stockings of all kinds, and print linens; a fabric of woollen caps has been established here since Louis XIV.'s time, in which two houses are employed; the chief we viewed. It employs at home about three hundred working hands, and twelve to sifteen hundred others. The caps are entirely made of Spanish wool, three ounces of yarn make a cap; they are all for exportation, from Marseilles to Turkey and the coast of Africa, being worn under turbans; in dressing they extract the grease with urine, full and sinish in the manner of cloth.

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The fugar refinery is a confiderable business, there are ten large and seventeen smaller houses engaged in it; the first employ each forty to forty-five workmen, the latter ten to twelve; one of the principal, which I viewed, makes 600,000lb. of sugar, and the rest in proportion. The best sugar is from Martinico, but they mix them together. Rum is never made from molasses, which is fold to the Dutch at 3st. the lb. the scum is squeezed, and the resuse is spread thick on meadows to kill moss, which it

does very effectually. The price of raw fugar is 30 to 45 livres per 100lb. The coal they burn is from the vicinity of Moulins, in the Bourbonnois. Trade in general is now brifk here.

ROMORENTIN.—A fabric of common cloths for liveries and foldiers, carried on by private weavers, who procure the wool and work it up; they are at least one hundred in number, and make on an average twenty pieces each in a year; it is fent to Paris, At Vatan there are about twenty of the fame weavers and three hundred fpinners.

CHATEAUROUX .-- A fabric of cloth, which two years ago, before the failure of the mafter, gave employment to five hundred hands, boys included, and to one thousand five hundred to one thousand eight hundred spinners in this and the neighbouring provinces; it is a Manufacture Royale, like that at Abbeville, of Vanrobais, by which is to be understood an exemption for all the workmen employed within the walls from certain taxes, I believe tailles. Some gentlemen of the town keep at prefent one hundred hands at work in the house, and the finners depending on that number, in order that the fabric might not be loft, nor the poor left entirely without employment; there is true and useful patriotism in this. The cloths that were made here were 1 to 11 aulns broad, which fold at 8 livres to 23 livres the auln; they make also ratteens. In the town are about eighty private weavers, who make nearly the fame cloths as at Romocatin, but better; fell from 8 lives to 18 livres the aulu, 14 broad; these private fabrics, which do not depend on any great establishment, are vastly preferable to concentrating the branches in one great incloture; the right method of remedying fuch a failure as has happened here, is to endeavour by every means to increase the number of private undertakers. The cloths are all made of the wool of the country now 20 to 37/. the lb. it has been dearer for two years, and ten years ago was to be had for 15 10 20f. from the 2.4th of June it is fold at every market, and in large quantities; manulacturers come from Normandy and Picardy for twelve days together to buy wool, wash, and fend it off.

At two leagues from Chateauroux are iron forges, which let at 140,000 livres a

year, (61251.) belonging to the Count d'Artois.

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Limoges.—The most considerable fabric here is that of druggets, the warp of which is of hemp thread, and the woof of wool, one hundred looms are employed by them. Siamoife stuffs are made of hemp and cotton, sold at 30 to 48 f. an auln; there are about one thousand or one thousand one hunared cotton spinners in the Limosin, also various mixed fluffs of filk and cotton, and file and thread, under many denominations, for gowns, coats, waiflcoats, breeches, &c. from 4 to 6 livres the auln. Some fluffs, which they call China, are rather dearer; a gown felling for 4 louis, but of filk gauze only 2 louis; this fabric employs about twenty looms, worked each by three or four people, boys included. I took many specimens of these fabrics, but in general there is a great mixture of thew and finery with coarfenels of materials and cheapnels of price, not at all fuitable to an English taste.

They have also a porcelane manufacture, purchased by the King two years ago, which works for Seve; it gives employment to about fixty hands; I bought a specimen, but nothing they make is cheap, and no wonder, if the King is the manufacturer.

They have in the generality of Limoges, which includes the Angoumois, feventy paper mills that manufacture all kinds; they are supposed to make every day to the quantity of 19 euver, the contents of which vary according to the fort of paper. A cuve of 130lb, will make 6½ reams of large and fine paper, but double that quantity of other forts; they calculate that a mill can work about two hundred days in a year, feftivals and repairs excluded; this makes at a cuve a day 454,2colb. for a year's work vol.iv.

of a mill, and 31.794,000lb. for the whole generality, and they value it at 20% the lb. which makes as many livres, or 1,390,987l. They confider the manufacture as greatly overloaded with an excife, which amounts to about 3th part of the value, but they have in allowance for all they prove to be defigned for exportation, in the nature of our drawbacks; the manufacture has increated notwithflanding died duty. They reckon here, and in all the paper mills of France, the cylinder for grading the rags, which they call Datch (and which we have had follong in England), as a new and great improvement. Each mill employs from twelve to twenty bands, including carters; they reckon that half the paper is exported, much to the Baltic, and foine they fay to England.

They have also in this generality forty iron forges, some of which employ one hun-

dred people, one is a foundry for calling and boring cannon.

Brive.—A filk fabric has been citablished here about five and twenty years, filk alone is wrought in it, and also mixed with cotton, and gauzes of all kinds are made; they say they have discovered a manner of dying raw filk, with which they make plain gauzes 4ths of an auth broad and 11 long; the price varies according as they are chinics (waved), or not; a piece white, striped or not, is 54 livres, (21. 78. 3d.) coloured ones 6c livres, (21. 128. 6d.) and the chinics 80 livres, (31. 108. od.); they make also a thick shining stuff in imitation of Manchester, at 6 livres the auth, also silk and neck handkerchiefs of a German taste, fold chicsly in Germany and Auvergne. A merchant also at Bosse, in Switzerland, is so good a customer as to have taken one thousand dozen of them. They have fixty or eighty looms constantly at work in the town; the weaver having his loom in his house and supplied with the material from the manufactory, and paid by the piece; each loom employs sive people, women and children included. They use only French siik, which though not so shining as the Italian, is they say, stronger, bears the preparation, and wears better.

They have also here a cotton mill and fabric which is but in its infancy, has only one combing machine, and three double ones for spinning; they say that this machine, with the affistance of the sampeople, does the work of eighty; this undertaking has been established and is carried on by Messrs, Mills and Clarke, the former an Englishman from Canterbury, the satter from Ireland, both induced by encouragements to settle in

France.

Southlac-Payrac.—No manufactures whatever in the country.

CATIORS.—Some finall manufactories among them, one of woollen cloth; fome years ago it had near one thousand workmen, but the company disagreeing, a law-fuit ensued, to that it decreased to one hundred and fifty; the spinners are chiefly in the town; work up both French and Spanish wool, but the latter not of the first quality. They shewed us however some cloth, made as they say, entirely of Spanish wool, at 3 livres 1cf. the lb. which is not so good as their ratteens made with $\frac{1}{4}$ wool of Navarre and Roussillon, and $\frac{1}{3}$ Spanish; they make some cloths for the home consumption of the province, entirely with the wool of Navarre, an auln broad, at 11 livres the auln; ratteens $\frac{1}{3}$ of an auln broad, at 22 livres the auln; a second fort of ratteens, made with French wool, an auln broad, 11 livres the auln.

CAUSSADE.—This country is full of peafant proprietors of land, who all abound very much with domestic manufactures; they work their wool into common cloths and camblets, and all the women and girls spin wool and hemp, of which they make linen; there are weavers that buy about two quintals of wool, pay for the spinning, weave it, and carry the cloth to market, and there are merchants that buy the superfluity for

export.

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AUBAN.

MONTAUBAN.—The woollen manufacture here is of fome confequence, confiffing of common cloths, creifees, half an auli broad, and feveral forts of stuffs; they give the epithet royale to one house, but in general the spinning and weaving are carried on both in the town and the country, not only on account of the mafter manufacturers, but also by private weavers, who make and carry their fluffs to market undreffed; the people of the fabric I viewed affert, that they use only Spanish wool, but this is every where in France a common affertion by way of recommending their fabrics, and has been heard in those, known on much better authority to use none at all; another circumstance to be noted is, that the wool of Rouffillon goes in common manufacturing language under the denomination of Spanish, I faw their raw wool, and am clear, that if it is Spanish, it is of a very inferior fort; the qual and the price of the cloths speak the same language; they dye the cloth and ne reviously; they fell their broad cloths, which are iths of an auth wide, at 1" e auln, (14s. 101d.) and the croifees at 5 livres 10%. Twelve hundred p nd to be employed by this fabric.

The filk manufacture is also confivered by the upper country also; the specific former the chief; it is executed like the wooden fabric, both by master manufacturers and by private looms; a stocking engine costs from 15 to 22 louis, and a workman can earn with it to 3 livres a day.

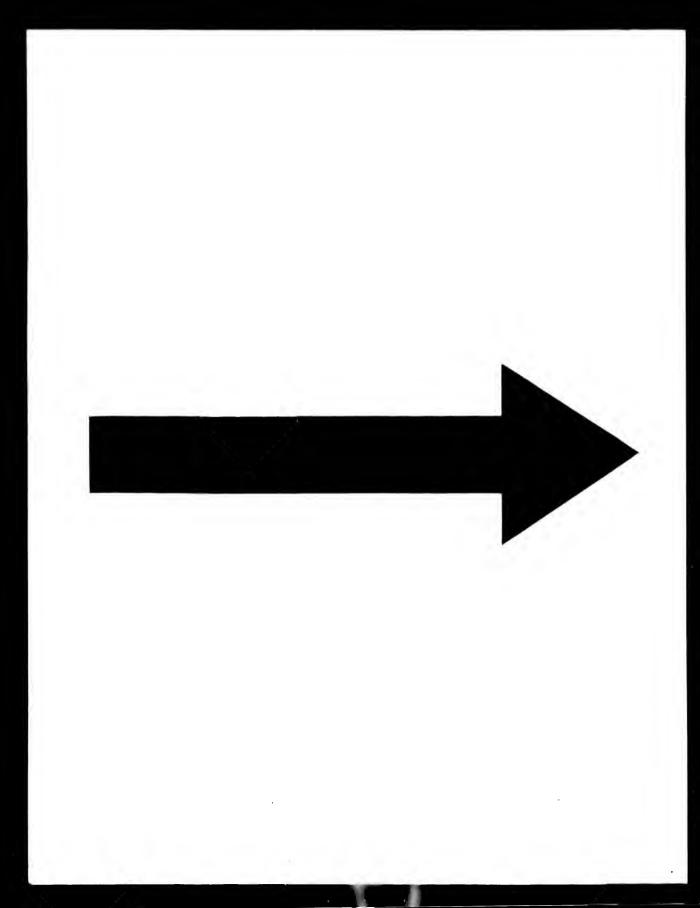
Toulouse—Has a woollen and a filk fabric; in the first are worked light stuffs, and has about eighty looms, which are in the town; in the other stockings, stuffs, damasks, and other fabrics, worked in flowers; about eighty looms also.

St. Martin.—There are here ten manufacturers' houses, one of which made last year seven hundred pieces of woollen stuffs, each fix aulis long; on an average each house five hundred pieces, chiefly bays, says, and other stuffs, the chain of thread; some for home consumption, but chiefly for exportation to Spain. Their best is 4 livres 15%, the canno of eight palms, and ten palms to the auln, bult an auln broad. Other stuffs 3 livres 15% dye in all kinds of colours. There are plenty of spinners of both thread and wool; weavers and spinners are spread over the country, but the combers and carders are at home. They use some Spanish wool from the Navarre hills at 35%, the lib. this year 33% but very dear.

Sr. GAUDENTZ - Manufactures feveral forts of stuffs, both wool alone, and wool and thread mixed; the principal fabric is a light stuff called Cadis, the greater part of which is exported to Spain.

BAGNERE DE LUCHON.—At half a league from this place is a manufacture of cobalt; it is faid, the only one in the whole kingdom, which was all fupplied, before the eftablishment of this fabric, by a Saxon gentleman, from the works in Saxony; and what is now made here is used at home and exported as Saxon cobalt. The ore is brought from Spain at a very high price, from a mine in the Pyrenees, not more distant in a strait line than fix leagues, but the road is fo rocky that the ore is brought by the valley of Larbouste, which takes up a day and a half. The ore is not found in veins, but in lumps (regners), so that it is often lost and found again.

A remarkable circumflance, and hardly credible, is their employing ore also from Styria, which is shipped at Trieste for Bourdeaux, and brought by the Garonne to Touleuse, and hither by land, at the expense of 45/1 the quintal. They use also some from Piedmont; of these different ores, that from Styria is the worst, and the Spanish the best; they cost at the manufactory, one with another, 300 livres to 360 livres the quintal: the Spanish ore is the first described by Mons. Foureroy, the grey or ask coloured; they do not melt these ores separate but mixed together.



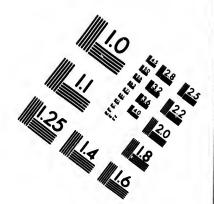
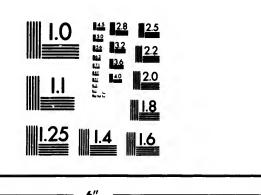
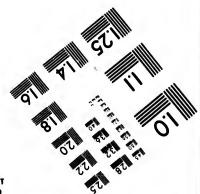


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married a ballarina, of seventeen. The country to Modena is the same as the slat part of the Bolognese; it is all a dead level plain, inclosed by neatly wrought hedges against the road, with a view of distinguishing properties. I thought, on entering the Modenese dominions, across the river, that I observed rather a decline in neatness and good management. View the city; the streets are of a good breadth, and most of the houses with good fronts, with a clean painted or well washed face—the effect pleasing. In the evening to the theatre, which is of the oddest form I have seen. We had a hodge-podge of a comedy, in which the following passage excited such an immoderate laugh, that it is worth inserting, if only to shew the taste of the audience, and the reputation of the ballarine; "Era un cavallo sì bello, sì socito, sì agile, di bel petto, gambe ben fatte, groppa gross, che se sosse la cavalla, converebbe dire che l'anima della prima ballerina del teatro trassingata in quella." Another piece of miserable wit was received with as much applause as the most sterling:—Arlech. "Chi e quel ré che ha la più gran corona del mondo?——Brighel. "Quello che ha la testa piu piccola."—24 miles.

The 7th. To the ducal palace, which is a magnificent building, and contains a confiderable collection of pictures, yet a melancholy remnant of what were once here. The library, celebrated for its contents, is splendid; we were shewn the curious MS. of which there is an account in De la Lande. The bible made for the D'Esté family is beautifully executed, begun in 1457, and finished in 1463, and cost 1875 zechins. In the afternoon, accompanied the Abbate Amoretti to Signore Belentani; and in the evening to Signore Venturi, professor of physicks in the university, with whom we spent a very agreeable and instructive evening. We debated on the propriety of applying some political principles to the present state of Italy; and I sound, that the professor had not only considered the subjects of political importance, but seemed pleased

to converfe upon them. The 8th. Early in the morning to Reggio. This line of country appears to be one of the best in Lombardy; there is a neatness in the houses, which are every where scattered thickly, that extends even to the homesteads and hedges, to a degree that one does not always find, even in the best parts of England; but the trees that support the vines being large, the whole has now, without leaves, the air of a forest. In fummer it must be an absolute wood. The road is a noble one. Six miles from Modena, we passed the Secchia, or rather the vale ruined by that river, near an unfinished bridge, with a long and noble causeway leading to it on each side, which does honour to the **Duke** It being a fe/la (the immaculate conception), we met the country people going to mass; the married women had all muss, which are here wedding presents. Another thing I observed, for the first time, were children standing ready in the road, or running out of the houses, to offer, as we were walking, affes to ride: they have them always faddled and bridled, and the fixed price is I fol per mile. This shews attention and industry, and is therefore commendable. A countryman, who had walked with us for fome diffance, replied to them, that we were not Signora d'afini. In the afternoon to Parma. The country the fame, but not with that air of neatness that is between Reggio and Modena; not so well inclosed, nor so well planted; and though very populous, not fo well built, nor the houses so clean and neat. Pass the Eusa, a poor miserable brook, now three yards wide, but a bridge for it a quarter of a mile long, and a fine vale, all destroyed by its ravages; this is the boundary of the two duchies. _____30 miles.

The 9th. At the academy is the famous picture of the holy family and St. Jerome, by Correggio, a mafter more inimitable perhaps than Raphael himself. To my unlearned eyes, there is in this painting such a suffusion of grace, and such a blaze of beauty,

d good houses In the podge that it of the groppa ina del much ona del a conhere. is MS. family echins. in the om we of ape propleafed be one re fcatat one ort the ımmer na, we oridge, to the et the e wedanding , affes fol per untryre not t with nor fo

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as strike me blind (to use another's expression) to all defects which learned eyes have found in it. I have admired this piece often in Italy in good copies, by no ordinary masters, but none come near the original. The head of the Magdalen is reckoned the chef d'auvre of Correggio. The celebrated cupola of the Duomo is fo high, fo much damaged, and my eyes fo indifferent, that I leave it for those who have better. At St. Sepolcro, St. Joseph gathering palms, &c. by the fame great hand. There are works by him also in the church of St. John, but not equally beautiful, and a copy of his famous Notte. At the academy is a fine adoration, by Mazzola. The great theatre here is the largest in the world. In the afternoon to the citadel; but its governor, Count Rezzonico, to whom I had a letter, is absent from Parma. Then to the celebrated reale typografia of Signore Bodoni, who shewed me many works of singular beauty. The types, I think, exceed those of Didot at Paris, who often crowds the letters close. as if to fave paper. The Daphne and Chloe, and the Amynta, are beautifully executed; I bought the latter as a specimen of this celebrated press, which really does honour to Italy. Signore Bodoni had the title of the printer to the King of Spain, but never received any falary or even gratification, as I learned in Parma from another quarter; where I was also informed, that the falary he has from the duke is only 150 zechins. His merit is great and distinguished, and his exertions are uncommon. He has thirty thousand matrices of type. I was not a little pleased to find, that he has met with the best fort of patron in Mr. Edwards, the bookfeller, at London, who has made a contract with him for an impression of two hundred and fifty of four Greek poets, four Latin, and four Italian ones-Pindar, Sophocles, Homer, and Theocritus; Horace, Virgil, Lucretius, and Plautus; Dante, Petrarca, Ariosto, and Tasso. In searching bookfellers' shops for printed agriculture, I became possessed of a book which I confider as a real curiofity-" Diario di Colorno per l'anno 1789," preceded by a fermon on this text, Ut feductores et veraces: Corinth. cap. vi. ver. 8. The diary is a catalogue of faints, with the chief circumstances of their lives, their merits, &c. This book, which is put together in the spirit of the tenth century, is (marvellously be it spoken!) the production of the Duke of Parma's pen. The sovereign, for whose education a constellation of French talents was collected—with what effect let this production witness. Instead of profanely turning friars out of their convents, this prince has peopled his palace with monks; and the holy office of inquifition is found at Parma, inflead of an academy of agriculture. The duchefs has her amusements, as well as her husband: doubtless they are more agreeable, and more in unifon with the character and practice of this age. The memoirs of the court of Parma, both during the reigns of Don Philip and the present duke, whenever they are published, for written I should suppose they must be, will make a romance as interesting as any that sistion has produced. If I lived under a government that had the power of fleecing me to support the extravagances of a prince, in the name of common feelings, let it be to fill a palace with miftreffes, rather than with monks. For half a million of French livres, the river Parma might be made navigable from the Po: it has been more than once mentioned; but the present duke has other and more holy employments for money; Don Philip's were not so directly aimed at the gates of Paradise.

The 10th. In the morning, walked with Signore Amoretti to Vicomero, feven miles north of Parma towards the Po, the feat of the Count de Schaffienatti. For half the way, we had a fine clear frosty fun-shine, which shewed us the constant fog that hangs over the Po; but a slight breeze from the north rising, it drove this fog over us, and changed the day at once. It rarely quits the Po, except in the heat of the day in fine weather in summer, so that when you are to the south of it, with a clear view of the

Appen-

Appenines, you fee nothing of the Alps; and when to the north of it, with a fine view of the latter, you fee nothing of the Appenines. Commonly it does not spread more than half a mile on each fide wider than the river, but varies by wind, as it did to-day. The country, for four miles, is mostly meadow, and much of it watered; but then becomes arable. Entered the house of a metayer, to see the method of living, but found nobody; the whole family, with fix or eight women and children, their neighbours, were in the stable, fitting on forms fronting each other in two lines, on a space paved and clean, in the middle of the room, between two rows of oxen and cows: it was most disagreeably hot on entering. They stay there till they go to bed, sometimes till midnight. This practice is univerfal in Lombardy. Dine with the Count de Schaffienatti, who lives entirely in the country with his wife. He shewed me his farm, and I examined his dairy, where cheefes are made nearly in the fame way, and with the fame implements as in the Lodesan; these cheeses may therefore, with as much propriety, be called Parmelan, as those that come from Lodi. My friend, the Abbate Amoretti, having other engagements in this country, I here took leave of him with regret.-14 miles.

The 11th. Having agreed with a vetturino to take me to Turin, and he not being able to procure another passenger, I went alone to Firenzola. It is fine sun-shine weather, decisively warmer than ever selt in England at this season: a sharp frost, without assecting the extremities as with us, where cold singers and toes may be classed among the nuisances of our climate. I walked most of the way. The face of the country is the same as before, but vines decrease after Borgo St. Donnino. An inequality in the surface of the country begins also to appear, and every where a scattering of oak tim-

ber, which is a new feature. ____20 miles.

The 12th. Early in the morning to Piacenza, that I might have time to view that city, which, however contains little worthy of attention. The country changed a good deal to-day. It is like the flat rich parts of Essex and Sussolk. Houses are thinner, and the general face inferior. The inequalities which began yesterday increase.—The two equestrian statues of Alexander and Rannutio Farnese, are finely expressive of life; the motion of the horses, particularly that of Alexander's, is admirable; and the whole performance spirited and alive. They are by John of Bologna, or Moca his eleve. Sleep at Castel St. Giovanne.—26 miles.

The 13th. Cross a brook two miles distant, and enter the Ki Sardinia's territory, where the sculls of two robbers, who, about two months ago, robbed the courier of Rome, are immediately feen: this is an agreeable object, that strikes us at our entrance into any part of the Piedmontese dominions; the inhabitants having in this respect an ill reputation throughout all Italy, much to the differace of the government. The country, to Tortona, is all hill and dale; and being cultivated, with an intermixture of vines, and much inclosed, with many buildings on the hills, the features are so agreeable, that it may be ranked among the most pleasing I have seen in Italy. Within three miles of Voghera, all is white with fnow, the first I have seen in the plain; but as we approach the mountains, shall quit it no more till the Alps are crossed. Dine at Voghera, in a room in which the chimney does not fmoke; which ought to be noted, as it is the only one free from it fince I left Bologna. At this freezing feafon, to have a door constantly open to aid the chimney in its office; one side burnt by the blaze of a faggot, and the other frozen by a door that opens into the yard, are among the agrémens of a winter journey in lat. 45. After Voghera the hills tend more to the fouth. The fun fetting here is a fingular object to an eye used only to plains. The Alps not being vifible, it feems to fet long before it reaches the plane of the horizon. Pass the citadel of Tortona

Fortona on a hill, one of the strongest places in the possession of the King of Sardinia

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el of tona The 14th. Ford the Scrivia; it is as ravaging a stream as the Trebbia, subject to dreadful floods, after even two days rain; especially if a Scirocco wind melts the snow on the Appenines: such accidents have often kept travellers four, sive, and even six days at miserable inns. I felt myself lighter for the having passed it; for there were not sewer than six or seven rivers, which could have thus stopped me. This is the last. The weather continues sharp and frosty, very cold, the ice sive inches thick, and the snow deep. Dine at Alexandria, joined there by a gentleman who has taken the other seat in the vettura to Turin. Just on the outside of that town, there is an uncommon covered bridge. The citadel seems surrounded with many works. Sleep at Fellisham, a vile dirty hole, with paper windows, common in this country, and not uncommon even in Alexandria itself.——18 miles.

The 15th. The country, to Asti and Villanova, all hilly, and some of it pleasing.—Coming out of Asti, where we dined, the country for some miles is beautiful. My vetturino has been travelling in company with another, without my knowing any thing of the master till to-day; but we joined at dinner, and I found him a very sensible agreeable Frenchman, apparently a man of fashion, who knows every body. His conversation, both at dinner, and in the evening, was no inconsiderable relief to the dullness of such a frozen journey. His name Nicolay.—22 miles.

The 16th. To Turin, by Moncallier; much of the country dull and difagreeable; hills without landscape; and vales without the fertility of Lombardy. My companion, who is in office as an architect to the King, as well as I could gather from the hints he dropped, lived nine years in Sardinia. The account he gives of that island, contains fome circumstances worth noting. What keeps it in its present unimproved situation, is chiefly the extent of estates, the absence of some very great proprietors, and the inattention of all. The Duke of Affinara has 300,000 livres a-year, or 15,000l. sterling. The Duke of St. Piera 160,000. The Marchefe di Pascha, very great. Many of them live in Spain. The Conte de Girah, a grandee of Spain, has an estate of two days journey, reaching from Poula to Oliustre. The peasants are a miserable set, that live in poor cabins, without other chimnies than a hole in the roof to let the finoke out. The intemperia is frequent and pernicious every where in fummer; yet there are very great mountains. Cattle have nothing to eat in winter, but brouzing on shrubs, &c. There are no wolves. The oil fo bad as not to be eatable. Some wine almost as good as Malaga, and not unlike it. No filk. The great export is wheat, which has been known to yield forty for one; but seven or eight for one is the common produce. Bread, 1/. the pound; beef, 2/; mutton, 21/. There are millions of wild ducks; fuch numbers, that perfons found of shooting have gone thither merely for the incredible sport they afford.

The 17th. Waited on our ambassador, the Honourable Mr. Trevor, who was not at home; but I had an invitation to dinner soon after, which I accepted readily, and passed a very pleasant day. Mr. Trevor's situation is not compatible with his being a practical farmer; but he is a man of deep sense, and much observation; all such are political farmers, from conviction of the importance of the subject. He converses well on it; Mr. Trevor mentioned some Picdmontese nobles, to whom he would have introduced me, if my stay had been long enough; but he would not admit an excuse respecting the Portuguese ambassador, of whom he speaks as a person remarkably well informed; and who loves agriculture greatly. In the evening, accompanied Mrs. Trevor to the great Tol. IV.

opera-house; a rehearfal of l'Olympiade, new-set by a young composer, Frederici;

Marchese fung.

The 18th. I am not a little obliged to Mr. Trevor for introducing me to one of the best informed men I have any where met with, Don Roderigo de Souza Continho, the Portuguese minister at the court of Turin, with whom I dined to-day; he had invited to meet me the Medico Bouvicino, l'Abbate Vasco, author of several political pieces of merit, and Signore Bellardi, a botanist of confiderable reputation, whom I had known before at Turin. What the young and beautiful Madame de Souza thinks of an English farmer, may be easily guessed; for not one word was spoken in an incessant converfation, but on agriculture, or those political principles which tend to cherish or restrain it. To a woman of fathion in England this would not appear extraordinary, for the now and then meets with it; but to a young Picdmontele, unaccustomed to such conversations, it must have appeared odd, uninviting, and unpolite. M. de Souza fent to the late Prince of Brazil, one of the best and most judicious offerings that any ambassador ever made to his fovereign; Portugal he reprefents as a country capable of vast improvements by irrigation, but almost an entire stranger to the practice; therefore, with a view of introducing a knowledge of its importance, he ordered a model, in different woods, to be constructed of a river; the method of taking water from it; and the conducting of it by various channels over the adjoining or diffant lands, with all the machinery used for regulating and measuring the water. It was made on such a scale, that the model was an exhibition of the art, fo far as it could be represented in the distribution of water. It was an admirable thought, and might have proved of the greatest importance to his country. This machine is at Lisbon; and, I take it for granted, is there considered (if Lifbon be like other courts) as a toy for children to look at, instead of a school for the instruction of a people. I was pleased to find the Portuguese minister among the most intimate acquaintances of Mr. Trevor; the friendship of men of parts and knowledge, does them reciprocal honour: I am forry to quit Turin, just as I am known to two men who would be fufficient to render any town agreeable; nor should I be forry if Don Roderigo was a farmer near me in Suffolk, instead of being an ambassador at Turin, for which he is doubtless much obliged to me.

The 19th. The King has fent a meffage to the Academy of Sciences, recommending them to pay attention to whatever concerns dying. The minister is faid to be a man of abilities, from which expression, in this age, we are to understand, a person who is, or feems to be active for the encouragement of manufactures and commerce, but never one who has just ideas on the importance of agriculture in preference to all other objects. To multiply mulberries in Piedmont, and eattle and theep in Savoy-to do fomething with the fertile wastes and pestiferous marshes of Sardinia, would give a minister reputation among the few real politicians only in any country: but dying, and buttons*, and feiffars, and commerce, are calculated to pleafe the many, and confequently to give reputation to those who build on such foundations. Dine with Mr. Trevor, and continue to find in him an equal ability and inclination to answer such of my enquiries as I took the liberty of troubling him with. In the evening he introduced me to Count Granari, the fecretary of flate for home affairs, that is the prime minister, under an idea that he had an intention of introducing Spanish sheep: he was ambassador in Spain, and seems, from his conversation, well informed concerning the Spanish slocks. This minister was called home to fill his prefent important fituation, to the fatisfaction of the people, who have

very generally a good opinion of his ability and prudence. To-morrow I leave Turin: I have agreed with a vetturino for carrying me to Lyons across Mont Cenis, in a chariot, and allowed him to take another person: this person he has found; and it is Mr. Grundy, a confiderable merchant of Birmingham, who is on his return from Naples.

The 20th. Leave Turin; dine at St. Anthony, like hogs; and smoked all the dinner

like hams. Sleep at Suza, a better inn.—32 miles.

The 21st. The shortest day in the year, for one of the expeditions that demand the longest, the passage of Mont Cenis, about which so much has been written. To those who, from reading, are full of expectation of fomething very fublime, it is almost as great a delution as is to be met with in the regions of romance: if travellers are to be believed, the descent, rammassant on the snow, is made with the velocity of a slash of lightning; I was not fortunate enough to meet with any thing fo wonderful. At the grande croix we feated ourselves in machines of four slicks, dignified with the name of traineau: a mule draws it, and a conductor, who walks between the machine and the animal, ferves chiefly to kick the fnow into the face of the rider. When arrived at the precipice, which leads down to Lanebourg, the mule is difmissed, and the rammassing begins. The weight of two perfons, the guide feating himfelf in the front, and directing it with his heels in the fnow, is fufficient to give it motion. For most of the way he is content to follow very humbly the path of the mules, but now and then croffes to escape a double, and in fuch fpots the motion is rapid enough, for a few feconds, to be agreeable; they might very eafily shorten the line one half, and by that method gratify the English with the velocity they admire so much. As it is at present, a good English horse would trot as fast as we rammassed. The exaggerations we have read of this business have arisen, perhaps, from travellers passing in summer, and relying on the descriptions of the muleteers. A journey on fnow is commonly productive of laughable incidents; the road of the traineau is not wider than the machine, and we were always meeting mules, &c. It was fometimes, and with reason, a question who should turn out; for the snow being ten feet deep, the mules had fagacity to confider a moment before they buried themfelves. A young Savoyard female, riding her mule, experienced a complete reverfal; for, attempting to pass my traincau, her beast was a little restive, and tumbling, dismounted his rider: the girl's head pitched in the fnow, and funk deep enough to fix her beauties in the polition of a forked polt; and the wicked muleteers, instead of affifting her, laughed too heartily to move: if it had been one of the ballerine, the attitude would not have been diffreshing to her. These laughable adventures, with the gilding of a bright fun, made the day pass pleasantly; and we were in good humour enough to swallow with chearfulness, a dinner at Lanebourg, that, had we been in England, we should have configned very readily to the dog-kennel.—20 miles.

The 22d. The whole day we were among the high Alps. The villages are apparently poor, the houses ill built, and the people with few comforts about them, except plenty of pine wood, the forests of which harbour wolves and bears. Dine at Modane, and

fleep at St. Michel.——25 miles.

The 23d. Pass St. Jean Maurienne, where there is a bishop, and near that place we faw what is much better than a bishop, the prettiest, and indeed the only pretty woman we saw in Savoy; on enquiry, found it was Madame de la Coste, wife of a farmer of tobacco; I should have been better pleased if she had belonged to the plough.—The mountains now relax their terrific features: they recede enough, to offer to the willing industry of the poor inhabitants something like a valley; but the jealous torrent seizes it with the hand of despotism, and like his brother tyrants, reigns but to destroy. On

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fome flopes vines: mulberries begin to appear; villages increase; but still continue rather shapeless heaps of inhabited stones than ranges of houses; yet in these homely cots, beneath the snow-clad hills, where natural light comes with tardy beams, and art seems more sedulous to exclude than admit it, peace and content, the companions of honesty, may reside; and certainly would, were the penury of nature the only evil selt; but the hand of despotism may be more heavy. In several places the view is picturesque and pleasing: inclosures seem lung against the mountain sides, as a picture is suffered to the wall of a room. The people are in general exceedingly ugly and dwarfish. Dine

at La Chambre; fad fare. Sleep at Aguebelle.--- 30 miles.

The 24th. The country to-day, that is to Chambery, improves greatly; the mountains, though high, recede; the vallies are wide, and the flopes more cultivated; and towards the capital of Savoy, are many country houses which enliven the scene. Above Mal Taverne is Chateauneuf, the house of the countess of that name. I was forry to fee, at the village, a carcan, or feigneural flandard, erected, to which a chain and heavy iron collar are fastened, as a mark of the lordly arrogance of the nobility, and the slavery of the people. I asked why it was not burned, with the horror it merited? The question did not excite the surprize I expected, and which it would have done before the French revolution. This led to a converfation, by which I learned, that in the haut Savoy, there are no feigneurs, and the people are generally at their eafe; possessing little properties, and the land in spite of nature, almost as valuable as in the lower country, where the people are poor, and ill at their case. I demanded why? Because there are feigneurs every where. What a vice is it, and even a curfe, that the gentry, inflead of being the cheriflers and benefactors of their poor neighbours, should thus, by the abomination of feudal rights, prove mere tyrants? Will nothing but revolutions, which cause their chateaux to be burnt, induce them to give to reason and humanity, what will be extorted by violence and commotion? We had arranged our journey, to arrive early at Chambery, for an opportunity to fee what is most interesting in a place that has but little. It is the winter relidence of almost all the nobility of Savoy. The best estate in the duchy is not more than 60,000 Piedmontese livres a year (3000l.), but for 20,000 livres, they live en grand seigneur here. If a country gentleman have 150 louis d'or a year, he will be fure to ipend three months in a town; the confequence of which must be, nine uncomfortable ones in the country, in order to make a beggarly figure the other three in town. These idle people are this Christmas disappointed, by the court having refused admittance to the usual company of French comedians; the government fears importing among the rough mountaineers the prefent spirit of French liberty. Is this weakness or policy? But Chambery had objects to me more interesting. I was eager to view Charmettes, the road, the house of Madame Warens, the vineyard, the garden, every thing, in a word, that had been described by the inimitable pencil of Rousseau. There was fomething to deliciously amiable in her character, in spite of her frailtiesher constant gaiety and good humour-her tenderness and humanity-her farming speculations - but, above all other circumstances, the love of Rousseau, have written her name amongst the few whose memoirs are connected with us, by ties more easily felt than described. The house is fituated about a mile from Chambery, fronting the rocky road which leads to that city, and the wood of chefnuts in the valley. It is small, and much of the same size as we should suppose, in England, would be found on a farm of one hundred acres, without the leaft luxury or pretention; and the garden, for shrubs and flowers, is confined, as well as unaffuming. The feenery is pleafing, being fo near a city, and yet, as he observes, quite sequestered. It could not but interest me, and I viewed

viewed it with a degree of emotion; even in the leafless melancholy of December it pleased. I wandered about some hills, which were assuredly the walks he has so agreeably described. I returned to Chambery, with my heart full of Madame de Warens. We had with us a young physician, a Monsieur Bernard, of Modanne en Maurienne, an agreeable man, connected with people at Chambery; I was forry to find, that he knew nothing more of the matter, than that Madame de Warens was certainly dead. With some trouble I procured the following certificate:

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Extract from the Mortuary Register of the Parish Church of St. Peter de Lemens.

"The 30th of July was buried, in the burying ground of Lomens, Dame Louisa Frances Fleonor de la Tour, widow of the Seignor Baron de Warens, native of Vevay, in the canton of Berne, in Switzerland, who died yesterday, at ten in the evening, like a good Christian, and fortified with her last facraments, aged about fixty-three years. She abjured the Protestant religion about thirty-fix years past; since which time she lived in our religion. She sinished her days in the suburb of Nesin, where she had lived for about eight years, in the house of M. Crepine. She lived heretofore at the Rectus, about four years in the house of the Marquis d'Alinge. She passed the rest of her life, since her abjuration, in this city. (Signed) Gaime, rector of Lemens."

"I, the underwritten, present rector of the said Lemens, certify, that I have extracted this from the mortuary register of the parish church of the said place, without any addition or diminution whatsoever; and, having collated it, have found it conformable to the original. In witness of all which, I have figned the present at Chambery, the 24th of December, 1789.

(Signed) A. SACHOD, rector of Lemens.

The 25th. Left Chambery much distaissied, for want of knowing more of it. Rousseau gives a good character • of the people, and I wished to know them better. It was the worst day I have known, for months past, a cold thaw, of snow and rain; and yet in this dreary season, when nature so rarely has a smile on her countenance, the environs were charming. All hill and dale, tossed about with so much wildness, that the features are bold enough for the irregularity of a forest scene; and yet withal, softened and melted down by culture and habitation, to be eminently beautiful. The country inclosed to the first town in France, Pont Beauvoisin, where we dined and slept. The passage of Echelles, cut in the rock by the sovereign of the country, is a noble and stupendous work. Arrive at Pont Beauvoisin, once more entering this noble kingdom, and meeting with the cockades of liberty, and those arms in the hands of the people, which, it is to be wished, may be used only for their own and Europe's peace.—24 miles.

The 26. Dine at Tour du Pin, and sleep at Verpiliere. This is the most advantageous entrance into France, in respect of beauty of country. From Spain, England, Flanders, Germany, or Italy by way of Antibes, all are inserior to this. It is really beautiful, and well planted, has many inclosures and mulberries, with some vines. There is hardly a bad feature, except the houses; which, instead of being well built, and white as in Italy, are ugly thatched mud cabins, without chimnies, the smoke issuing at a hole in the roof, or at the windows. Glass feems unknown; and there is an air of poverty and misery about them quite dissonant to the general aspect of the country.

* S'il est une petite ville au monde où l'on goûte la douceur de la vie dans un commerce pgréable & fûr, c'est Chambery.

Pass Bourgoyn, a large town. Reach Verpiliere. This day's journey is a fine variation of hill and dale, well planted with chateaux, and farms and cottages spread about it. A mild lovely day of sun-shine threw no slight gilding over the whole. For ten or twelve days past, they have had, on this side of the Alps, sine open warm weather, with sun-shine; but on the Alps themselves, and in the vale of Lombardy, on the other side, we were frozen and buried in snow. At Pont Beauvoisin, and Bourgoyn, our passports were demanded by the milice bourgeoise, but no where else: they assure us, that the country is perfectly quiet every where, and have no guards mounted in the villages—nor any suspicions of fugitives, as in the summer. Not far from Verpiliere, pass the burnt chateau of M. de Veau, in a fine situation, with a noble wood behind it. Mr. Grundy was here in August, and it had then but lately been laid in asses; and a peasant was hanging on one of the trees of the avenue by the road, one among many who were seized by the milice bourgeoise for this atrocious act.—27 miles.

The 27th. The country changes at once; from one of the finest in France, it becomes almost slat and sombre. Arrive at Lyons, and there, for the last time, see the Alps; on the quay there is a very fine view of Mont Blanc, which I had not seen before; leaving Italy, and Savoy, and the Alps, probably never to return, has something of a melancholy sensation. For all those circumstances which render that classical country illustrious—the feat of great men—the theatre of the most distinguished actions—the exclusive field in which the elegant and agreeable arts have loved to range—what country can be compared with Italy? to please the eye, to charm the ear, to gratify the enquiries of a laudable curiosity, whither would you travel? In every bosom whatever, Italy is the second country in the world—of all others, the surest proof that it is the first. To the theatre; a musical thing, which called all Italy by contrast to my ears! What stuff is French music! the distortions of embodied dissonance. The theatre is not equal to that of Nantes; and very much inferior to that of Bourdeaux.——18 miles.

The 28th. I had letters to Monf. Goudard, a confiderable filk merchant, and, waiting on him yesterday, he appointed me to breakfast with him this morning. I tried hard to procure fome information relative to the manufactures of Lyons; but in vain: every thing was felon and fuivant. To Monf. l'Abbé Rozier, author of the voluminous dictionary of agriculture, in quarto. I visited him as a man very much extolled, and not with an idea of receiving information in the plain practical line, which is the object of my enquiries, from the compiler of a dictionary. When Monf. Rozier lived at Beziers, he occupied a confiderable farm; but, on becoming the inhabitant of a city, he placed this motto over his door-Laudato ingentia rura, exiguum colito, which is but a bad apology for no farm at all. I made one or two efforts towards a little practical conversation; but he flew off from that centre in such eccentric radii of science, that the vanity of the attempt was obvious in a moment. A physician present, remarked to me, that if I wanted to know common practices and products, I should apply to common farmers, indicating by his air and manner, that such things were b neath the dignity of science. Monf. l'Abbé Rozier is, however, a man of confice able knowledge, though no farmer; in those pursuits, which he has cultivated with inclination, he is juftly celebrated—and he merits every eulogium, for having fet on foot the Journal de Phylique, which, take it for all and all, is by far the beit journal that is to be found in Europe. His house is beautifully fituated, commanding a noble profpect; his library is furnished with good books; and every appearance about him points out an eafy fortune. Waited then on Monf. de Froslard, a protestant minister.

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minister, who, with great readiness and liberality, gave me much valuable information; and, for my further instruction on points with which he was not equally acquainted, introduced me to Monf. Roland la Platerie, inspector of the Lyons sabrics. This gentleman had notes upon many subjects, which afforded an interesting conversation; and, as he communicated freely, I had the pleafure to find, that I should not quit Lyons without a good portion of the knowledge I fought. This gentleman, fomewhat advanced in life, has a young and beautiful wife—the lady to whom he addressed his lesters, written in Italy, and which have been published in five or fix volumes. Monf. Froffard defiring Monf, de la Platerie to dine with him, to meet me, we had a great deal of conversation on agriculture, manufactures, and commerce; and differed but little in our opinions, except on the treaty of commerce between England and France, which that gentleman condemned, as I thought, unjuffly; and we debated the point. He warmly contended, that filk ought to have been included as a benefit to France; I urged, that the offer was made to the French ministry, and refused; and I ventured to fay, that had it been accepted, the advantage would have been on the fide of England, instead of France, supposing, according to the vulgar ideas, that the benefit and the balance of trade are the fame things. I begged him to give me a reason for believing that France would buy the filk of Piedmont and of China, and work it up to underfell England; while England buys the French cotton, and works it into fabrics that underfell those of France, even under an accumulation of charges and duties? We discussed these, and similar subjects, with that fort of attention and candour that render them interesting to persons who love a liberal conversation upon important points.— Among the objects at Lyons, that are worthy of a stranger's curiosity, is the point of junction of the two great rivers. Soanne and the Rhone; Lyons would doubtlefs be much better fituated, if it were really at the junction; but there is an unoccupied space fufficient to contain a city half as large as Lyons itself. This space is a modern embankment, that cost fix millions, and ruined the undertakers. I prefer even Nantes to Lyons. When a city is built at the junction of two great rivers, the imagination is upt to suppose, that those rivers form a part of the magnificence of the scenery. Without broad, clean, and well built quays, what are rivers to a city but a facility to carry coals or tar-barrels? What, in point of beauty, has London to do with the Thames, except at the terrace of the Adelphi, and the new buildings of Somerfet-place, any more than with Fleet-ditch, buried as it is, a common shore? I know nothing in which our expectations are fo horribly disappointed as in cities, so very sew are built with any general idea of beauty or decoration!

The 29th. Early in the morning, with Monf. Froffard, to view a large farm near Lyons. Monf. Froffard is a fleady advocate for the new confliction establishing in France. At the fame time, all those I have conversed with in the city, represent the state of the manufacture as melancholy to the last degree. Twenty thousand people are fed by charity, and consequently very ill fed; and the mass of distress, in all kinds, among the lower classes, is greater than ever was known—or any thing of which they had an idea. The chief cause of the evil felt here, is the stagnation of trade, occasioned by the emigrations of the rich from the kingdom, and the general want of considence in merchants and manufacturers; whence, of course, bankrupteies are common. At a moment when they are little able to bear additional burthens, they raise by voluntary contributions, for the poor, immense sums; so that including the revenues of the hospitals, and other charitable foundations, there are not paid, at present, for the use of the poor, less than 40,000 louis d'or a year. My fellow traveller, Mr. Gruady, being desirous to get soon to Paris, persuaded me to travel with him in a post-chaise,

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a mode of travelling which I detest, but the season urged me to it; and a still stronger motive, was the having of more time to pass in that city, for the sake of observing the extraordinary state of things—of a King, Queen, and Dauphine of France, actual prisoners; I therefore accepted his proposal, and we set off after dinner to-day. In about ten miles come to the mountains. The country dreary; no inclosures, no mulberries, no vines, much waste, and nothing that indicates the vicinity of such a city. At Arnas, sleep at a comfortable inn—17 miles.

The 30th. Continue early in the morning to Tarar; the mountain of which name is more formidable in reputation than in reality. To St. Syphorien the fame features. The buildings increase, both in number and goodness, on approaching the Seine, which we crossed at Roane; it is here a good river, and is navigable many miles higher, and consequently at a vall distance from the sea. There are many stat bottomed barges on

it, of a confiderable fize. ____50 miles.

The 31st. Another clear, fine, fun-shine day; rarely do we see any thing like it at this season in England. After Droiturier, the woods of the Bourbonnois commence. At St. Gerund le Puy the country improves, enlivened by white houses and chateaux, and all continues sine to Moulins. Sought here my old friend, Mons. L'Abbé Barut, and had another interview with Mons. le Marquis Degouttes, concerning the sale of his chateau and estate of Riaux; I desired still to have the resultation in the promised me, and will, I have no doubt, keep his word. Never have I been to tempted on any occasion, as with the wish of possessing this agreeable situation, in one of the sinest parts of France, and in the finest climate of Europe. God grant, that, should he be pleased to protract my life, I may not, in a sad old age, repent at not closing of once with an offer to which prudence calls, and prejudice only forbids! Heaven send me ease and tranquillity, for the close of life, be it passed either in Sussolk, or the Bourbonnois!——38 miles.

January 1, 1790. Nevers makes a fine appearance, rifing proudly from the Loire; but, on the first entrance, it is like a thousand other places. Towns, thus seen, resemble a group of women, huddled close together: you see their nodding plumes and sparkling gems, till you fancy that ornament is the herald of beauty; but, on a nearer inspection, the faces are too often but common clay. From the hill that descends to Pouges, is an extensive view to the north; and after Pouilly a fine scenery, with the

Loire doubling through it.—75 miles.

The 2d. At Briare, the canal is an object that announces the happy effects of industry. There we quit the Loire. The country all the way diversified; much of it dry, and very pleafant, with rivers, hills, and woods, but almost every where a poor foil. Pals many chateaux, fome of which are very good. Sleep at Nemours, where we meet with an inn-keeper, who exceeded, in knavery, all we had met with, either in France or Italy: for fupper, we had a fuppe maigre, a partridge and a chicken roafted, a plate of celery, a finall cauliflower, two bottles of poor vin du Pays, and a deffert of two bifcuits and four apples: here is the bill: -Potage 1 liv. 10/.-Perdrix, 2 liv. 10/. Poulet, 2 liv.—Celeri, 1 liv. 4/.—Choufleur, 2 liv.—Pain et desfert, 2 liv.—Feu & apartment, 6 liv. - Total, 19 liv. 8f. Against so impudent an extortion we remonstrated severely, but in vain. We then infifted on his figning the bill, which after many evafions, he did, a Petoile; Foulliare. But having been carried to the inn, not as the flar, but the écu de France, we suspected some deceit; and going out to examine the premises, we found the fign to be really the écu, and learned, on enquiry, that his own name was Roux, instead of Foulliare: he was not prepared for this detection, or for the execution we poured on fuch an infamous conduct: but he ran away in an inflant, and hid

himself till we were gone. In justice to the world, however, such a sellow ought to be marked out.---60 miles.

The 3d. — Through the forest of Fontainbleau, to Melun and Paris. The 60 postes from Lyons to Paris, making three hundred English miles, cost us, including 3 louis for the hire of the post-chaife (an old French cabriolet of two wheels) and the charges at the inns, &c. 151. English; that is to say, 18, per English mile, or 6d. per head. At Paris, I went to my old quarter, the hotel de la Rochefoucauld; for at Lyons I had received a letter from the duke de Liancourt, who defired me to make his house my home, just as in the time of his mother, my much lamented friend, the duchefs d'Estissac, who died while I was in Italy. I found my friend Lazowski well, and we were à gorge deployée, to converte on the amazing scenes that have taken place in France since I left Paris.

46 miles. es on The 4th. After breakfast, walk in the gardens of the Thuilleries, where there is the e it at most extraordinary fight that either French or English eyes could ever behold at Paris. ience. eaux, Barut, of his mifed n any parts leafed th an

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The King, walking with fix grenadiers of the milice bourgeoife, with an officer or two of his household, and a page. The doors of the gardens are kept shut in respect to him, in order to exclude every body but deputies, or those who have admission-tickets. When he entered the palace, the doors of the gardens were thrown open for all without distinction, though the Queen was still walking with a lady of her court. She also was attended to closely by the gardes bourgeoifes, that the could not speak but in a low voice, without being heard by them. A mob followed her, talking very loud, and paying no other apparent respect than that of taking off their hats wherever she passed, which was indeed more than I expected. Her Majesty does not appear to be in health; she feems to be much affected, and shews it in her face; but the King is as plump as ease can render him. By his orders, there is a little garden railed off, for the Dauphin to amuse himself in, and a small room is built in it to retire to in case of rain; here he was at work with his little hoe and rake, but not without a guard of two grenadiers. He is a very pretty good-natured looking boy, of five or fix years old, with an agreeable countenance; wherever he goes, all hats are taken off to him, which I was glad to observe. All the family being kept thus close prisoners (for such they are in effect) afford, at first view a flocking fpectacle; and is really fo, if the act were not effectually necessary to effect the revolution; this I conceive to be impossible; but if it were necessary, no one can blame the people for taking every measure possible to secure that liberty they had feized in the violence of a revolution. At fuch a moment, nothing is to be condemned but what endangers the national freedom. I must, however, freely own, that I have my doubts whether this treatment of the royal family can be justly esteemed any security to liberty; or, on the contrary, whether it were not a very dangerous step, that exposes to hazard whatever had been gained. I have spoken with several persons to day, and have flated objections to the prefent fystem, stronger even than they appear to me, in order to learn their fentiments; and it is evident, they are at the prefent moment under an apprehension of an attempt towards a counter-revolution. The danger of it very much, if not abfoiutely, refults from the violence which has been used towards the royal family. The National Ailembly was, before that period, answerable only for the permament conflitutional laws passed for the future: fince that moment, it is equally answerable for the whole conduct of the government of the flate, executive as well as legiflative. This critical fituation has made a conftant spirit of exertion necessary amongst the Paris militia. The great object of M. La Fayette, and the other military leaders, is to improve their discipline, and to bring them into such a form as to allow a rational dependence on them, in case of their being wanted in the field; but such is the spirit of freedom, that, even in the military, there is so little subordination, that a man is an officer to day, and in the ranks to-morrow; a mode of proceeding, that makes it the more difficult to bring them to the point their leaders see necessary. Eight thousand men in Paris may be called the standing army, paid every day 15s. a man; in which number is included the corps of the French guards from Versailles, that deserted to the people; they have also eight hundred horse, at an expense each of 1500 livres (621, 158, 6d.) a-

year, and the officers have double the pay of those in the army.

The 5th. Yesterday's address of the National Assembly to the King has done them credit with every body. I have heard it mentioned by people of very different opinions, but all concur in commending it. It was upon the question of naming the annual sum which should be granted for the civil list. They determined to fend a deputation to His Majesty, requesting him to name the sum himself, and praying him to consult less his spirit of economy, than a sense of that dignity which ought to environ the throne with a becoming splendor. Dine with the Duke de Liancourt, at his apartments in the Thuilleries, which, on the removal from Versailles, were assigned to him as grand master of the wardrobe; he gives a great dinner, twice a-week, to the deputies, at which from twenty to forty are usually present. Half an hour after three was the hour appointed, but we waited, with some of the deputies that had lest the Assembly, till seven, before the duke and the rest of the company came.

There is in the affembly at prefent a writer of character, the author of a very able book, which led me to expect fomething much above mediocrity in him; but he is made of fo many pretty littleneffes, that I flared at him with amazement. His voice is that of a feminine whifper, as if his nerves would not permit fuch a boifterous exertion as that of fpraking loud enough to be heard; when he breathes out his ideas, he does it with eyes half clofed; waves his head in circles, as if his fentiments were to be received as oracles; and has fo much relaxation and pretention to cafe and delicacy of manner, with no perfonal appearance to fecond these prettines, that I wondered by what artificial means such a mass of heterogeneous parts became compounded. How strange that we should read an author's book with great pleasure; that we should fay, this man has no stuff in him; all is of consequence; here is a character uncontaminated with that rubbish which we see in so many other men—and after this, to meet the garb

of fo much littleness!

The 6th, 7th, and 8th. The Duke of Liancourt having an intention of taking a farm in his own hands, to be conducted on improved principles after the English manner, he defired me to accompany him and my friend Lazowski, to Liancourt, to give my opinion of the lands, and of the best means towards executing the project, which I very readily complied with. I was here witness to a scene which made me smile: at no great distance from the chatcau of Liancourt, is a piece of waste land, close to the road, and belonging to the duke. I faw fome men very bufy at work upon it, hedging it in, in fmall divifions; levelling, and digging, and bestowing much labour for so poor a spot. I asked the steward if he thought that land worth such an expence? He replied, that the poor people in the town, upon the revolution taking place, declared that the poor were the nation; that the walke belonged to the nation; and, proceeding from theory to practice, took possession, without any further authority, and began to cultivate; the duke not viewing their industry with any displeasure, would offer no opposition to it. This circumstance shews the universal spirit that is gone forth; and proves, that were it pulled a little farther, it might prove a ferious matter for all the property in the kingdom. In this case, however, I cannot but commend it; for if there be one public nuisance greater than another, it is a man preserving the possession of

waste land, which he will neither cultivate himself, nor let others cultivate. The miferable people die for want of bread, in the fight of waltes that would feed thousands. I think them wife, and rational, and philosophical, in seizing such tracks: and I heartily wish there was a law in England for making this action of the French peasants a legal one with us. -- 72 miles.

The 9th. At breakfall this morning in the Thuilleries. Monfigur Definarets, of the Academy of Sciences, brought a Memoire, presentée par la Societé Royale, d'Agriculture, a l'Assemblée Nationale, on the means of improving the agriculture of France; in which, among other things, they recommend great attention to bees, to panification, and to the obfletrick art. On the establishment of a free and patriotic government, to which the national agriculture might look for new and halcyon days, these were objects doubtless of the first importance. There are some parts of the memoir that really merit attention. Called on my fellow traveller, Monf. Nicolay, and find him a confiderable perfon; a great hotel; many fervants; his father a marcehal of France, and himfelf first president of a chamber in the Parliament of Paris, having been elected a deputy, by the nobility of that city, for the flates general, but declined accepting it; he has defired I would dine with him on Sunday, when he promifes to have Monf. Decretot, the celebrated manufacturer and deputy of Louviers. At the National Affembly-The Count de Mirabeau, speaking upon the question of the members of the chamber of vacation, in the parliament of Rennes, was truly eloquent—ardent, lively, energetic, and impetuous. At night to the affembly of the Duchefs d'Auville; the Marquis and Madame Condor-

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The 10th. The chief leaders in the National Affembly, are, Target, Chapellier, Mirabeau, Bernave, Volney the traveller, and, till the attack upon the property of the clergy, l'Abbé Syeyes; but he has been fo much difgusted by that step, that he is not near fo forward as before. The violent democrats, who have the reputation of being fo much republican in principle, that they do not admit any political necessity for having even the name of a king, are called the *enragés*. They have a meeting at the Jacobins, called the revolution club, which affembles every night, in the very room in which the famous league was formed, in the reign of Henry III.; and they are fo numerous, that all material bufiness is there decided, before it is discussed by the National Assembly. I called this morning on feveral perfons, all of whom are great democrats; and mentioning this circumstance to them, as one which favoured too much of a Paris it nto governing the kingdom, an idea, which must, in the long run, be unpopular and hazardous; I was answered, that the predominancy which Paris assumed, at present, was absolutely neceffary for the fafety of the whole nation; for if nothing were done, but by procuring a previous common confent, all great opportunities would be loft, and the National Affembly left constantly exposed to the danger of a counter-revolution. They, however, admitted, that it did create great jealousies, and no where more than at Verfailles, where fome plots (they added) are, without doubt, hatching at this moment, which have the King's person for their object: riots are frequent there, under pretence of the price of bread: and fuch movements are certainly very dangerous, for they cannot exift fo near Paris, without the ariffocratical party of the old government endeavouring to take advantage of them, and to turn them to a very different end, from what was, perhaps, originally intended. I remarked, in all these conversations, that the belief of plots, among the diffusfied party, for setting the King at liberty, is general; they seem almost perfunded, that the revolution will not be absolutely finished before some such attempts are made; and it is curious to observe, that the general voice is, that if an attempt were to be made, in such a manner as to have the least appearance of success, it would undoubt-P P 2

edly cost the King his life: and so changed is the national character, not only in point of affection for the person of their prince, but also in that softness and humanity, for which it has been so much admired, that the supposition is made without horror or compunction. In a word, the present devotion to liberty is a sort of rage; it absorbs every other passion, and permits no other object to remain in view than what promises to confirm it. Dine with a large party at the Duke de la Rochesoucauld's; ladies and gentlemen, and all equally politicians; but I may remark another effect of this revolution, by no means unnatural, which is, that of lessening, or rather reducing to nothing, the enormous insuence of the fex; they mixed themselves before in every thing, in order to govern every thing. I think I see an end to it very clearly. The men in this kingdom were puppets, moved by their wires, who, instead of giving the ton, in questions of national debate, must now receive it, and must be content to move in the political sphere of some celebrated leader—that is to say, they are, in fact, finking into what nature intended

them for; they will become more amiable, and the nation better governed.

The 11th. The riots at Verfailles are faid to be ferious; a plot is talked of, for eight hundred men to march, armed, to Paris, at the inftigation of fomebody, to join fomebody; the intention, to murder La Fayette, Bailly, and Necker; and very wild and improbable reports are propagated every moment. They have been fufficient to induce Monf. La Fayette to iffue, yesterday, an order concerning the mode of assembling the militia, in case of any sudden alarm. Two pieces of cannon, and eight hundred men, mount guard at the Thuilleries every day. See fome royalists this morning, who affert, that the public opinion in the kingdom is changing apace; that pity for the King, and difgust at some proceedings of the Assembly, have lately done much: they say, that any attempt at present to rescue the King would be absurd, for his present situation is doing more for him than force could effect, at this moment, as the general feelings of the nation are in his favour. They have no fcruple in declaring, that a well concerted vigorous effort would place him at the head of a powerful army, which could not fail of being joined by a great, difgusted, and injured body. I remarked, that every honest man must hope no such event would take place; for if a counter-revolution should be effected, it would establish a despotism, much heavier than ever France experienced. This they would not allow; on the contrary, they believed, that no government could, in future, be fecure, that did not grant to the people more extensive rights and privileges than they possessed under the old one. Dine with my brother traveller, the Count de Nicolay; among the company, as the count promifed me, was Monf. Decretot, the celebrated manufacturer of Louviers, from whom I learned the magnitude of the diftreffes at prefent in Normandy. The cotton mills which he had shewn me, last year, at Louviers, have flood still nine months; and so many spinning jennies have been defroyed by the people, under the idea that fuch machines were contrary to their interests, that the trade is in a deplorable fituation. In the evening, accompanied Monf. Lazowski to the Italian opera, La Berbiera di Seviglia, by Paiefello, which is one of the most agreeable compositions of that truly great matter. Mandini and Rasfanelli excellent, and Baletti a fweet voice. There is no fuch comic opera to be feen in Italy, as this of Paris, and the house is always full: this will work as great a revolution in French music, as ever can be wrought in French government. What will they think, by and by, of Lully and Rameau? And what a triumph for the manes of Jean Jaques!

The 12th. To the National Assembly:—a debate on the conduct of the chamber of vacation in the parliament of Rennes, continued. Mons. l'Abbé Maury, a zealous royalist, made a long and eloquent speech, which he delivered with great slucncy and precision, and without any notes, in defence of the parliament: he replied to what had

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been urged by the Count de Mirabeau, on a former day, and spoke strongly on his unon the people of Bretagne, to a redoubtable denombrement. He faid, that it would their become the members of fuch an affembly, to count their own principles and duties, and the fruits of their attention, to the privileges of the subject, than to call for a denombrement, that would fill a province with fire and bloodfied. He was interrupted by the noise and confusion of the assembly, and of the audience, fix several times; but it had no effect on him; he waited calmly till it subsided, and then proceeded, as if no interruption had been given. The fpeech was a very able one, and much relished by the royalists; but the enragés condemned it, as good for nothing. No other person fpoke without notes; the Count de Clermont read a fprech that had fome brilliant paffages, but by no means an answer to l'Abbé Maury, as indeed it would have been wonderful if it were, being prepared before he heard the Abbé's oration. It can hardly be conceived how flat this mode of debate renders the transactions of the Assembly. Who would be in the gallery of the English House of Commons, if Mr. Pitt were to bring a written speech, to be delivered on a subject on which Mr. Fox was to speak before him? And in proportion to its being uninteresting to the hearer is another evil, that of lengthening their fittings, fince there are ten perfons who will read their opinions, to one that is able to deliver an impromptu. The want of order, and every kind of confusion, prevails now almost as much as when the Assembly sat at Versailles. The interruptions given are frequent and long; and fpeakers, who have no right, by the rules to fpeak, will attempt it. The Count de Mirabeau pressed to deliver his opinion after the Abbé Maury; the prefident put it to the vote, whether he fhould be allowed to fpeak a fecond time, and the whole house rose up to negative it; so that the first orator of the Assembly has not the influence even to be heard to explain—we have no conception of fuch rules; and yet their great number mult make this necessary. I forgot to observe, that there is a gallery at each end of the faloon, which is open to all the world; and fide ones for admission of the friends of the members by tickets: the audience in these galleries are very noify: they clap, when any thing pleafes them, and they have been known to hifs; an indecorum which is utterly destructive of freedom of debate. I left the house before the whole was finished, and repaired to the Duke of Liancourt's apartments in the Thuilleries, to dine with his cultomary party of deputies; Meff. Chapellier and Dementioners were there, who had both been prefidents, and are still members of confiderable distinction; M. Volney, the celebrated traveller, also was present; the Prince de Poix, the Count de Montmorenci, &c. On our waiting for the Duke of Liancourt, who did not arrive till half after feven, with the greatest part of the company, the converfation almost entirely turned upon a strong suspicion entertained of the English having made a remittance for the purpose of embroiling matters in the kingdom. The Count de Thiard, cordon blue, who commands in Bretagne, fimply stated the fact, that some regiments at Brest had been regular in their conduct, and as much to be depended on as any in the fervice; but that, of a fudden, money had found its way among the men in confiderable fums, and from that time their behaviour was changed. One of the deputies demanding at what period, he was answered *; on which he immediately observed, that it followed the remittance of 1,100,000 livres (48,1251.) from England, that had occasioned so much conjecture and conversation. This remittance which had been particularly enquired into, was so mysterious and obscure, that the naked fact only could be discovered; but every person present afferted the truth of it. Other gentlemen united the two facts, and were ready to suppose them connected. I remarked,

^{*} It was a late transaction.

that if England had really interfered, which appeared to me incredible, it was to be prefumed, that it would have been either in the line of her supposed interest, or in that of the King's supposed inclination; that these happened to be exactly the same, and if money were remitted from that kingdom, most assuredly it would be to support the falling interest of the crown, and by no means to detach from it any force whatever; in fuch a cafe remittance from Eng'and might go to Metz, for keeping troops to their duty, but would never be fent to Brest to corrupt them, the idea of which was grossly abfurd. All feemed inclined to admit the juffnefs of this remark, but they adhered to the two facts, in whatever manner they might, or might not, be connected. At this dinner, according to custom, most of the deputies, especially the younger ones, were dreffed au poliffon, many of them without powder in their hair, and fome in boots; not above four or five were neatly dreffed. How times are changed! When they had nothing better to attend to, the fashionable Parisians were correctness itself, in all that pertained to the toilette, and were, therefore, thought a frivolous people; but now they have fomething of more importance than drefs to occupy them; and the light airy character that was ufually given them, will have no foundation in truth. Every thing in this world

depends on government.

The 13th. A great commotion among the populace late last night, which is said to have arisen on two accounts—one to get at the Baron de Besneval, who is in prison, in order to hang him; the other to demand bread at 2/. the pound. They eat it at prefent at the rate of twenty-two millions a-year cheaper than the rest of the kingdom, and yet they demand a farther reduction. However, the current discourse is, that Favras, an adventurer also in prison, must be hanged to satisfy the people; for as to Besneval, the Swifs cantons have remonstrated fo firmly, that they will not dare to execute him. Early in the morning, the guards were doubled, and eight thousand horse and boot are now patrolling the streets. The report of plots, to carry off the King, is in the mouth of every one; and it is faid, these movements of the people, as well as those at Verfailles, are not what they appear to be, mere mobs, but infligated by the ariffocrats: and if permitted to rife to fuch a height as to entangle the Paris militia, will prove the part only of a conspiracy against the new government. That they have reason to be alert is undoubted; for though there should actually be no plots in existence, yet there is so great a temptation to them, and fuch a probability of their being formed, that fupineness would probably create them. I have met with the lieutenant-colonel of a regiment of horfe, who is come from his quarters, and who afferts, that his whole regiment, officers and men, are now at the King's devotion, and would march wherever he called, and would execute whatever he ordered, not contrary to their ancient feelings; but that they would not have been inclined to be so obedient before he was brought to Paris; and from the converfation he has had with the officers of other regiments, he believes that the fame spirit pervades their corps also. If any serious plans have been laid for a counter-revolution, or for carrying off the King, and their execution has been, or shall be prevented, posterity will be much more likely to have information of it than this age. Certainly the eyes of all the fovereigns, and of all the great nobility in Europe, are on the French revolution; they look with amazement, and even with terror. upon a fituation which may possibly be hereafter their own case; and they mult expect, with anxiety, that some attempts will be made to reverse an example, that will not want copies, whenever the period is favourable to make them. Dine at the Palais Royal, with a felect party; politicians they must be, if they are Frenchmen. queltion was discussed, Are the plots and conspiracies of which we hear so much at present, real, or are they invented by the leaders of the revolution, to keep up the **fpirits** fpirits of the militia, in order to enable themselves to secure the government on its new

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foundation irreversibly? The 14th. Plots! plots!—the Marquis La Fayette, last night, took two hundred prisoners in the Champs Elysees, out of eleven hundred that were collected. They had powder and ball but no mufquets. Who? and what are they? is the question; but an answer is not so easily to be had. Brigands, according to some accounts, that have collected in Paris for no good purpose; people from Versailles by others; Germans by a third: but every one would make you believe, they are an appendix to a plot laid for a counter-revolution. Reports are fo various and contradictory, that no dependence is to be placed on them; nor credit given to one-tenth of what is afferted. It is fingular, and has been much commented on, that La Fayette would not truft his flanding troops, as they may be called, that is the eight thousand regularly paid, and of whom the French guards form a confiderable portion, but he took, for the expedition, the bourgeoife only; which has elated the latter as much as it has difgusted the former. The moment feems big with events; there is an auxiety, an expectation, an uncertainty, and suspence that is visible in every eye one meets; and even the best informed people, and the least liable to be led away by popular reports, are not a little alarmed at the apprehenfion of some unknown attempt that may be made to rescue the King, and overturn the National Affembly. Many perfors are of opinion, that it would not be difficult to take the King, Queen, and Dauphin away, without endangering them, for which attempt the Thuilleries is particularly well fituated, provided a body of troops, of fufficient force, were in readiness to receive them. In such a case, there would be a civil war, which, perhaps, would end in despotism, whatever party came off victorious; confequently fuch an attempt, or plan, could not originate in any bosom from true patriotifm. If I have a fair opportunity to pais much of my time in good company at Paris, I have also no small trouble in turning over books, MSS, and papers, which I cannot fee in England: this employs many hours a day, with what I borrow from the night, in making notes. I have procured also some public records, the copying of which demands time. He who wishes to give a good account of such a kingdom as France, must be indefatigable in the fearch of materials; for let him collect with all the care possible, yet when he comes to fit down coolly to the examination and arrangement, will find, that much has been out into his hands, of no real confequence, and more, poffi-

bly, that is abfolutely ufelefs. The 15th. To the Palais Royal, to view the pictures of the Duke of Orleans, which I had tried once or twice before to do in vain. The collection is known to be very rich in pieces of the Dutch and Flemish masters; some finished with all the exquisite attention which that school gave to minute expression. But it is a genre little interesting, when the works of the great Italian artifts are at hand: of these the collection is one of the first in the world: Raphael, Hanibal Carracci, Titian, Dominichino, Correggio, and Paul Veronese. The first picture in the collection, and one of the finest that ever came from the casel, is that of the three Maries, and the dead Christ, by H. Carracci; the powers of expression cannot go further. There is the St. John of Raphael, the fame picture as those of Florence and Bologna; and an inimitable Virgin and Child; by the fame great mafter. A Venus bathing, and a Magdalen, by Titian. Lucretia, by Andrea del Sarto. Leda, by Paul Veronese, and also by Tintoretto. Mars and Venus, and feveral others, by Paul Veronele. The naked figure of a woman, by Bonieu, a French painter, now living, a pleasing piece. Some noble pictures, by Poulfin and Le Seur. The apartments must disappoint every one :- I did not see one good room, and all inferior to the rank and immense fortune of the possessor, certainly the first subject in Europe. Dine at the Duke of Liancourt's: among the company was Monf. de Bouganville, the celebrated circumnavigator, agreeable as well as fenfible; the Count de Castellane, and the Count de Montinorenci, two young legislators, as enrages as if their names were only Bernave or Rabeau. In some allusions to the constitution of England, I found they hold it very cheap, in regard to political liberty. The ideas of the moment, relative to plots and conspiracies, were discussed, but they seemed very generally to agree, that, however the constitution might, by such means, be delayed, it was now absolutely impossible to prevent its taking place. At night to the national circus, as it is called, at the Palais Royal, a building in the gardens, or area of that palace, the most whimsical and expensive folly that is easily to be imagined: it is a large ball room, funk half its height under ground; and, as if this circumstance were not fufficiently adapted to make it damp enough, a garden is planted on the roof, and a river is made to flow around it, which, with the addition of fome spiriting jets d'eau, have undoubtedly made it a delicious place, for a winter's entertainment. The expence of this gew-gaw building, the project of some of the Duke of orleans' friends, I suppofe, and executed at his expence, would have established an English farm, with all its principles, buildings, live flock, tools, and crops, on a scale that would have done honour to the first fovereign of Europe; for it would have converted five thousand arpents of defert into a garden. As to the result of the mode that has been pursued, of investing fuch a capital, I know no epithet equal to its merits. It is meant to be a concert, ball, coffee, and billiard room, with shops, &c. defigned to be something in the style of the amusements of our Pantheon. There were music and finging to night, but the

room being almost empty, it was, on the whole, equally cold and fambre.

The 16th. The idea of plots and conspiracies has come to such a height as greatly to alarm the leaders of the revolution. The difgust that spreads every day at their transactions, arifes more from the King's fituation than from any other circumflance. They cannot, after the scenes that have passed, venture to set him at liberty before the constitution is finished: and they dread, at the same time, a change working in his favour in the minds of the people: in this dilemma, a plan is laid for perfuading his Majesty to go fuddenly to the National Affembly, and, in a speech, to declare himself perfectly fatisfied with their proceedings, and to confider himfelf as at the head of the revolution, in terms fo couched as to take away all idea or pretence of his being in a state of confinement or coercion. This is at prefent a favourite plan; the only difficulty will be, to perfuade the King to take a flep that will apparently preclude him from whatever turn or advantage the general feeling of the provinces may work in his favour; for, after fuch a measure, he will have reason to expect that his friends will second the views of the democratical party, from an absolute despair of any other principles becoming efficient. It is thought probable, that this scheme will be brought about; and should it be accomplified, it will do more to ease their apprehensions of any attempts than any I have been among the bookfellers, with a catalogue in hand to collect publications, which, unfortunately for my purfe, I find I must have on various topics, that concern the present state of France. - These are now every day so numerous, especially on the subjects of commerce, colonies, finances, taxation, deficit, &c. not to fpeak of the subject immediately of the revolution itself, that it demands many hours every day to leffen the number to be bought, by reading pen in hand. The collection the Duke of Liancourt has made from the very commencement of the revolution, at the first meeting of the notables, is prodigious, and has cost many hundred louis d'or. It is uncommonly complete, and will hereafter be of the greatest value to consult on abundance of curious questions. The was

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The 17th. The plan I mentioned yesterday, that was proposed to the King, was urged in vain: his Majesty received the proposition in such a manner as does not leave any great hope of the scheme being executed; but the Marquis la Fayette is so strenuous for its being brought about, that it will not yet be abandoned; but proposed again at a more favourable moment. The royalists, who know of this plan, (for the public have it not) are delighted at the chance of its failing. The refufal is attributed to the Queen. Another circumstance, which gives great disquiet at present to the leaders of the revolution, is the account daily received from all parts of the kingdom, of the diffress, and even starving condition of manufacturers, artists, and failors, which grows more and more ferious, and must make the idea of an attempt to overturn the revolution so much the more alarming and dangerous. The only branch of industry in the kingdom, that remains flourishing, is the trade to the fugar-colonies; and the scheme of emancipating the negroes, or at least of putting an end to importing them, which they borrowed from England, has thrown Nantes, Havre, Marfeilles, Bourdeaux, and all other places connected fecondarily with that commerce, into the utmost agitation. The Count de Mirabeau fays publicly, that he is fure of carrying the vote to put an end to negro flavery—it is very much the converfation at prefent, and principally amongft the leaders, who fay, that as the revolution was founded on philosophy, and supported by metaphysics, such a plan cannot but be congenial. But surely trade depends on practice much more than on theory; and the planters and merchants, who come to Paris to oppose the scheme, are better prepared to shew the importance of their commerce, than to reason philosophically on the demerits of slavery. Many publications have appeared

on the subject — some deferving attention. The 18th. At the Duke of Liancourt's dinner, to-day, meet the Marquis de Casaux, the author of the mechanism of societies; notwithstanding all the warmth, and even fire of argument, and vivacity of manner and composition for which his writings are remarkable, he is perfectly mild and placid in conversation, with little of that effervescence one would look for from his books. There was a remarkable affertion made today, at table, by the Count de Marguerite, before near thirty deputies; speaking of the determination on the Toulon business, he said, it was openly supported by deputies, under the avowal that more infurrections were necessary. I looked round the table, expecting fome decifive answer to be given to this, and was amazed to find that no one replied a word. Monf. Volney, the traveller, after a paufe of fome minutes, declared that he thought the people of Toulon had acted right, and were julifiable in what they had done. The hiftory of this Toulon business is known to all the world. This Count de Marguerite has a teté dure and a fleady conduct —it may be believed that he is not an enrage. At dinner, M. Blin, deputy from Nantes, mentioning the conduct of the revolution club at the Jaczbins, faid, we have given you a good prefident; and then asked the count why he did not come among them? He answered, Je me trouve benreux en verité de n'avoir jamais été d'aucune société politique particuliere ; je pense que mes fonctions font publiques, et qu'elles peuvent aifément se remplir sans affociations particulieres. He got no reply here. At night, Monf. Decretot, and Monf. Blin, carried me to the revolution club at the Jacobins; the room where they affemble, is that in which the famous league was figned as it has been observed above. There were above one hundred deputies prefent, with a prefident in the chair; I was handed to him, and announced as the author of the Arithmetique Politique; the prefident flanding up, repeated my name to the company, and demanded if there were any objections—None; and this is all the ceremony, not merely of an introduction, but an election: for I was told, that now I was empowered to be prefent when I pleafed, being a foreigner. Ten VOL. IV.

or a dozen other elections were made. In this club, the business that is to be brought into the National Assembly is regularly debated; the motions are read, that are intended to be made there, and rejected or corrected and approved. When these have been fully agreed to, the whole party are engaged to support them. Plans of conduct are there determined; proper persons nominated for being of committees, and presidents of the Assembly named. And I may add, that such is the majority of numbers, that whatever passes in this club, is almost sure to pass in the Assembly. In the evening at the Duchess d'Anville's, in whose house I never failed of spending my time agreeably.

One of the most amusing circumstances of travelling into other countries, is the opportunity of remarking the difference of cultoms amongst different nations in the common occurrences of life. In the art of living, the French have generally been effected by the rest of Europe to have made the greatest proficiency, and their manners have been accordingly more imitated, and their customs more adopted than those of any other nation. Of their cookery, there is but one opinion; for every man in Europe, that can afford a great table, either keeps a French cook, or one instructed in the fame manner. That it is far beyond our own, I have no doubt in afferting. We have about half a dozen real English dishes, that exceed any thing, in my opinion, to be met with in France; by Englith diffies I mean, a turbot and lobfter fauce—ham and chicken turtle—a haunch of venison—a turkey and oysters—and after these there is an end of an English table. It is an idle prejudice to class roast beef among them; for there is not better beef in the world than it Paris. Large handsome pieces were almost conflantly on the confiderable tables I have dined at. The variety given by their cooks, to the fame thing, is aftonishing; they drefs an hundred dishes in an hundred different ways, and most of them excellent; and all forts of vegetables have a favouriness and flavour, from rich fauces, that are absolutely wanted to our greens boiled in water. This variety is not striking, in the comparison of a great table in France with another in England; but it is manifelt, in an inflant, between the tables of a French and English family of fmall fortune. The English dinner, of a joint of meat and a pudding, as it is called, or pot luck, with a neighbour, is bad luck in England; the fame fortune in France, gives, by means of cookery only, at least four dishes to one among us, and fpreads a finall table incomparably better. A regular defert with us is expected at a confiderable table only, or at a moderate one, when a formal entertainment is given; in France it is as effential to the finallest dinner as to the largest; if it confist of a bunch of dried grapes only, or an apple, it will be as regularly ferved as the foup. I have met with perfons in England, who imagine the fobriety of a French table carried to fuch a length, that one or two glaffes of wine are all that a man can get at dinner; this is an error: your fervant mixes the wine and water in what proportion you pleafe; and large bowls of clean glasses are fet before the master of the house, and some friends of the family, at different parts of the table, for ferving the richer and rarer forts of wines, which are drunk in this manner freely enough. The whole nation are forupuloufly neat in refufing to drink out of glaffes ufed by other people. At the houfe of a carpenter or black/mith, a tumbler is fet to every cover. This refults from the common beverage being wine and water; but if at a large table, as in England, there were porter, beer, cycler, and perry, it would be impossible for three or four tumblers or golilets to fland by every plate; and equally fo for the fervants to keep fuch a number feparate and diffind. In table-linen, they are, I think, cleaner and wifer than the Englifh; that the change may be inceffant, it is every where coarfe. The idea of dining without a napkin feems ridiculous to a Frenchman, but in England we dine at the tables zht

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of people of tolerable fortune, without them. A journeyman carpenter in France has his napkin as regularly as his fork; and at an inn, the fille always lays a clean one to every cover that is spread in the kitchen, for the lowest order of pedestrian travellers. The expence of linen in Fugland is enormous, from its fineness; furely a great change of that which is coarse, would be much more rational. In point of cleanliness, I think the merit of the two nations is divided; the French are cleaner in their persons, and the English in their houses; I speak of the mass of the people, and not of individuals of confiderable fortune. A bidet in France is as univerfally in every apartment, as a bafon to wash your hands, which is a trait of personal cleanliness I wish more common in England; on the other hand their necessary houses are temples of abomination; and the practice of spitting about a room, which is amongst the highest as well the lowest ranks, is detestable; I have seen a gentleman spit so near the clothes of a duchess, that I have stared at his unconcern. In every thing that concerns the stables, the English far exceed the French; horfes, grooms, diarnefs, and change of equipage; in the provinces you fee cabriolets of the last century; an Englishman, however small his fortune may be, will not be feen in a carriage of the fashion of forty years past; if he cannot have another, he will walk on foot. It is not true that there are no complete equipages at Paris, I have feen many; the carriage, horses, harness, and attendance, without fault or blemish; - but the number is certainly very much inferior to what are seen at London. English horses, grooms, and carriages, have been of late years largely imported. In all the articles of fitting up and furnishing houses, including those of all ranks in the estimate, the English have made advances far beyond their neighbours. Mahogany is scarce in France, but the use of it is profuse in England. Some of the hotels in Paris are immense in fize, from a circumstance which would give me a good opinion of the people, if nothing elfe did, which is the great mixture of families. When the eldeft for marries, he brings his wife home to the house of his father, where there is an apartment provided for them; and if a daughter do not wed an eldeft fon, her husband is also received into the family, in the fame way, which makes a joyous number at every table. This cannot altogether be attributed to economical motives, though they certainly influence in many cases, because it is found in families possessing the first properties in the kingdom. It does with French manners and cultoms, but in England it is fure to fail, and equally fo amongst all ranks of people: may we not conjecture, with a great probability of truth, that the nation in which it fucceeds is therefore better tempered? Nothing but good humour can render fuch a jumble of families agreeable, or even tolerable. In dress they have given the ton to all Europe for more than a century; but this is not among any but the highest rank an object of fuch expence as in England, where the mass of mankind wear much better things (to use the language of common converfation) than in France: this struck me more amongst ladies who, on an average of all ranks, do not dress at one half of the expence of English women. Volatility and changeableness are attributed to the French as national characteristics,—but in the case of dress with the groffest exaggeration. Fashions change with ten times more rapidity in England, in form, colour, and affemblage; the viciflitudes of every part of dress are fantastic with us: I fee little of this in France; and to instance the mode of dressing the gentlemen's hair, while it has been varied five times at London, it has remained the fame at Paris. Nothing contributes more to make them a happy people, than the chearful pliancy of disposition with which they adapt themselves to the circumstances of life: this they possess much more than the high and volatile spirits which have been attributed to them; one excellent confequence is, a greater exemption from the extravagance of living beyond their fortunes, than is met with in England. In the highest ranks of life, there

are instances in all countries; but where one gentleman of small property, in the provinces of France runs out his fortune, there are ten such in England that do it. In the blended idea I had formed of the French character from reading, I am disappointed as to three circumstances, which I expected to find predominant. On comparison with the English, I looked for great talkativeness, volatile spirits, and universal politeness. I think, on the contrary, that they are not so talkative as the English; have not equally good spirits, and are not a jot more polite; nor do I speak of certain classes of people, but of the general mass. I think them, however, incomparably better tempered; and I propose it as a question, whether good temper be not more reasonably expected under

an arbitrary, than under a free government.

The 10th. My last day in Paris, and, therefore, employed in waiting on my friends, to take leave; amongst whom, the Duke de Liancourt holds the first place; a nobleman, to whose uninterrupted, polite, and friendly offices I owe the agreeable and happy hours which I have passed at Paris, and whose kindness continued so much, to the last, as to require a promife, that if I should return to France, his house, either in town or country, should be my home. I shall not omit observing, that his conduct in the revolution has been direct and manly from the very beginning; his rank, family, fortune, and fituation at court, all united to make him one of the first subjects in the kingdom; and upon public affairs being fufficiently embroiled, to make affemblies of the nobility necessary, his determined resolution to render himself master of the great questions which were then in debate, was feconded by that attention and application which were requifite in a period, when none but men of bufiness could be of importance in the flate. From the first assembling of the States General, he resolved to take the party of freedom; and would have joined the tirs at first, if the orders of his constituents had not prevented it; he defired them, however, either to confent to that step or to elect another reprefentative; and, at the same time, with equal liberality, he declared, that if ever the duty he owed his country became incompatible with his office at court, he would refign it; an act that was not only unneceffary, but would have been abfurd, after the King himself had become a party in the revolution. By espousing the popular cause, he acted conformably to the principles of all his ancestors, who in the civil wars and confusions of the preceding centuries, uniformly opposed the arbitrary proceedings The decifive fteps which this nobleman took at Verfailles, in adviling of the court. the King, &c. &c. are known to all the world. He is, undoubtedly to be efteemed one of those who have had a principal share in the revolution, but he has been invariably guided by conflitutional motives; for it is certain, that he has been as much averfe from unneceffary violence and fanguinary measures, as those who were the most attached to the ancient government. With my excellent friend Lazowski, I spent my last evening; he endeavoured to perfuade me to refide upon a farm in France, and I enticing him to quit French builtle for English tranquillity.

The 20th—25th. By the diligence to London, where I arrived the 25th; though in the most commodious feat, yet languishing for a horse, which, after all, affords the best means of travelling. Passing from the first company of Paris to the rabble which one sometimes meets in diligences, is contrast sufficient,—but the idea of returning to England, to my family and friends, made all things appear smooth,—272 miles.

The 30th. To Bradfield; and here terminate, I hope, my travels. After having furveyed the agriculture and political refources of England and Ireland, to do the fame with France, was certainly a great object, the importance of which animated me to the attempt: and however pleafing it may be to hope for the ability of giving a better account of the agriculture of France than has ever been laid before the public, yet the

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greatest satisfaction I feel, at present, is the prospect of remaining, for the suture, on a farm, in that calm and undisturbed retirement, which is suitable to my fortune, and which, I trust, will be agreeable to my disposition.——72 miles.

PART THE SECOND.

CHAP. I. - Of the Extent of France.

THE circumstances which are most apt to command the attention of mankind, for giving importance to a country, are really valuable no farther than as they contribute to the ease and prosperity of the inhabitants. Thus the extent of a kingdom is of no other consequence than affording nourishment for a people too numerous to be reasonably apprehensive of foreign conquest. When a territory is much more confierable than for this purpose, it tends to inspire ambitious projects in the minds of the men that govern, which have proved, perhaps, more difastrous than the deficiency of power that endangers the national defence. France, under Lewis XIV. was a remarkable instance of this fact. The fituation to which the ambition of that prince had reduced her immense territory, was hardly preferable to that of Holland, in 1672, whose misfortunes, flowed from the same origin. Of the two extremes, France has undoubtedly more to apprehend from the ambition of her own rulers, than from that of any neighbour. Authorities vary confiderably in describing the extent of this fine kingdom. The Maréchal de Vauban makes it 30,000 leagues, or 140,940,000 arpents; Voltaire 130,000,000 arpents.—The accuracy of round numbers is always to be doubted. Templeman gives it an extent of 138,837 fquare geographical miles, of fixty to a degree; a measurement, which renders his tables absolutely useless for any purpofe, but that of comparing one country with another, a degree being fixty-nine miles and a half, which makes it 119,220,874 to acres.—Paucton reduces his measure to French arpents, and makes the number 107, 290,000. The Encyclopædia, article France, assigns 100,000,000 of arpents as the contents; and observes, that, by Cassini's maps, the amount is 125,000,000. A late author * calculates it at 105,000,000: and another † at 135,600,000. None of these accounts seem sufficiently accurate for the purpose of giving a correct idea. The authority on which I am inclined most to rely is that of M. Necker t, who calculates it (without Corfica) at 26,951 leagues fquare, of 22822 toifes; this, I find, amounts to 156,024,213 arpents of Paris, or 131,722,295 English acres. Paucton, by covering his map with shot to every indenture of outline, with the greatest care, found the kingdom to contain 103,021,840 arpents, each of 100 perch, at 22 feet the perch, or 1344% toiles square to the arpent; instead of which the arpent of Paris contains but 900 toiles:—this measurement makes 81,687,016 English acres § .- Notwithstanding the credit usually given to this writer for his accuracy, I must here reject his authority in favour of that of M. Necker. Paucton's calculation, which gives 81,687,016 English acres to France, assigns by the same rule to England 24,476,315 ||; yet Templeman's furvey, at 60 miles to a degree, and therefore confelledly below the truth, makes it 31,048,000, which, at 691 to a degree, are

42,463,264-6

^{*} L'Impôt Abonné, 4to 1789. † Apologie fur l'Ediét de Nantes. † Ocuvres, 4to, p. 326. § I have made this reduction, by valuing, with Paucton, the French arpent at 1.0000, and the English 0. 529. [That is 30,269,360 arpents royale, of 22 feet to the perch.

42,463,264+2; a greater difference than is found between them in estimating the surface of France, which, by Paucton, is made 81,587,016 English acres, with a general admittion of about a million more; and by Templeman, 88,855,685; or at 691, is 119,220,874+13.

It is vain to attempt reconciling these contrary accounts. I shall therefore adopt, with the author of the Credit Nationale*, the estimation of M. Necker, which supposes

156,024,113 arpents of Paris, or 131,722,295 English acres.

For a comparison of the French and English dominions, I must for the latter adopt Templeman's measurement, who gives to

138,837 fquare miles,

arc,

England, 49,450 fquare miles. France, Scotland, 27,794
Ireland, 27,457

Calculated at 60 to a degree; but at 691 these numbers become,

England, 66,343 - 42,463,264 France, 186,282 - 119,220,874.
Scotland, 37,292 - 23,867,016 Ireland, 36,840 - 23,577,630 | 140,480 89,907,910

Hence it appears, that France, according to these proportions, contains 29,312,964 acres more than the three British kingdoms; and it is to be noted, that as the extent of France is taken from the more modern and correct authorities, whence M. Necker deduced his measurement at 131,722,295 English acres, which is consequently much more exact than that of Templeman; so it is equally fair to suppose, that the latter is as much below the fact in the contents of our islands, as he was in those of France. Corrected by this rule, the areas will be

England †, 46,915,933 † acres. | France, 131,722,295 acres. Scotland, 26,369,695 | Ireland, 26,049,961

99,335,589

These numbers, I am us on the whole inclined to believe, are as near to the truth as may reasonably be expected from calculations, when the data are not absolutely correct.

CHAP. II. - Of the Soil, and Face of the Country.

THE modern French geographers, in a branch of that science, to which they have properly given the epithet physical, have divided the kingdom into what they call bassins; that is to say, into several great plains, through which slow the provided rivers, and which are formed of several ridges of mountains, either origin the materials of term it, or granite, or secondary of calcareous and other materials. Of these bassins the chief

* Monf. Jeris, 8vo. 1789. He calculates on 27,000 leagues, at 2282 toifes, 5786 arpents of Paris in a league; o in France 15%, 25,720 arpents. P. 65.

4 It may be a worked, that Dr. G ew calculated the real contents of Fugland and Wales at 46,080,000 acres. Philosophical confidence, No 330, p. 266. Which from a confirmation that we are not far from the truth.

1 qual 16 73,306 figure miles.

are, 1. Of the Loire and all the rivers that fall into it. 2. Of the Seine and its branches. 3. Of the Garonne. 4. Of the Rhone and Soane. There are likewife fome smaller ones, but of much less account. The reader who wishes to consult the detail of these, may turn to the Journal Physique, tom. 30. for a memoir by M. la Metherie.

In respect to the geoponic division of the foils of the kingdom, the rich calcareous plain of the north-caltern quarter first calls for our attention. I crosted this in several directions, and from the observations I made, the following are the limits I would affign to it. On the coall it may be faid to extend from Dunkirk to Carentan in Normandy, for the northern promontory of that province, which projects into the fea at Cherbourg, &c. is of a different toil. In M. la Metherie's map is marked a ridge of granite mountains in this promontory; I should remark, that I saw nothing in that country which deferves the name of a mountain, any more than at Alençon; merely hills, and those not confiderable ones. I may terminate the rich track at Carentan, as thence to Contances the land is chiefly poor and flony, and holds, with many variations, quite to Breft. In the line a little to the S. of the coall, before Caen, is feen the first considerable change of foil from Calais; it there becomes a red stone brash; this rich track is here, there-On re-entering Normandy on the fide of Alençon, from Anjou and fore, narrow. Maine, I first met with the rich soams on a calcareous bottom at Beaumont; at Alençon there is a noble foil, which I then loft no more in advancing northwards. In another line I entered this rich diffrict about ten miles to the fouth of Tours. The hills on the Loire, though all calcarcous that I noticed, are not all rich, though on fome the foil is deep and good. Directly to the fouth of Orleans begins the miferable Sologne, which, though on a calcareous bottom of mail, is too poor to be included in the present district. From Orleans to Paris, and also Fontainbleau, no exceptions are to be made, but in the finall space of poor fand stone in the royal forest of the latter town. In a fourth direction this diffrict is entered, but no fo decifively as in the preceding cases, a few miles to the fouth of Nemours. At Croifiere the first chalk is visible to the traveller. Advancing to the N. E. very good land is found near Nangis, and then bearing N. I entered the fertile plain of Brie. Some of the vales through which the Marne flows are rich and what I saw calcareous; but the hills are poor. The plain of Rheims may be classed in the present district, but at Soissons and thence due N. all is excellent. These limits inclose one of the finest territories that I suppose is to be found in Europe. From Dunkirk to Nemours is not less than one hundred and eighty miles in a right line. From Soiffons to Carentan is another right line of about two hundred miles. From Eu, on the Norman coast, to Chartres is one hundred miles; and though the breadth of this rich district at Caen, Bayeux, &c. is not considerable, yet the whole will be found to contain not a trilling proportion of the whole kingdom. This noble territory includes the deep, level, and fertile plain of Flanders, and part of Artois, than which a richer foil can hardly be defired to repay the industry of mankind; two, three, and even four feet deep of moift and putrid, but friable and mellow loam, more inclining to clay than fand, on a colcareous bottom, and from its marine origin (for there can be little doubt but that the whole plain of Flanders and Holland has been covered by the fea, long fince our globe has taken its prefent appearance) abounding with particles that add to the common fertility, refulting from fuch compounds found in other fituations. The putridity of the bunus in Flanders and its position, being a dead level, are the principal circomfrances that diffinguish it from the better foils of the rest of this fertile part of Eurepe. Every flep of the way from the very gate of Paris to near Soiffons, and thence to Cambray, with but little variation of some inferior hills of small extent, is a fandy learn of an admirable texture, and commonly of confiderable depth. About Meaux it

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is to be ranked among the finest in the world; they call it bleaunemeau-it tends much towards an impalpable powder, which betrays few figns of fand, even when, to the eye, it has the appearance of a fandy loam. It is of an admirable texture and friability. Monf. Gibert informed me, that it is of the depth of eighteen feet where his well is digged, and under it a stratum of white marl, found under the whole country, at different depths. This marl has the appearance of a confolidated paste. The line through Picardy is inferior, yet, for the most part, excellent. But all the arable part of Normandy, which is within thefe limits, is of the fame rich friable fandy loam, to a great depth; that from Bernay to Elbouf can fearcely be exceeded; four to five feet deep of a reddish brown loam on a chalk bottom, and without a stone. As to the pastures of the same province, we have, I believe, nothing either in England or Ireland equal to them; I hold the vale of Limerick to be inferior. The famous Pays de Beauce, which I croffed between Arpajon and Orleans, refembles the vales of Meaux and Senlis; it is not, how. ever, in general, fo deep as the former. The limits I have traced are those of great fertility; but the calcareous diffrict, and even of chalk, is much more extensive. To the E. it reaches acrofs Champagne; a strong change, not having occurred to me till about St. Menehould. From Metz to Nancy all is calcareous, but not chalk. Lime-stone land I found plentifully in the fouthern parts of Alface; and from Before across Franche Compté to Dole, all the stones I tried, and many from quarries were calcareous. Immenfe diffricts in Dauphine and Provence, &c. &c. are the fame; I shall therefore only observe, that I remarked the chalk country to extend E. to about St. Menchould, and S. to Nemours and Montargis * in one line. In another, that all of the Angoumois which I faw is the fame; much in Poitou, and through Tourain to the Loire. Had I penetrated more to the W. I should probably have found the chalk of Angoumois, and that of the Loire to be connected uninterruptedly. Most of the course of the Loire is, I believe, chalk, and the whole of it calcareous. Hence it appears, that the chalk country of France is of very confiderable extent; not less than two hundred miles E. and W. and about as much, but more irregularly, N. and S. and comprises, by far, the richest and most fertile provinces of the kingdom.

The next confiderable district, for fertility, is that which I may call, without impropricty, the plain of the Garonne. Passing to the S. from Limosin, it is entered about Creiffenfac, with the province of Quercy, and improves all the way to Montauban and Touloufe, where it is one of the finest levels of sertile foil that can any where be feen. It continues, but not equally fruitful, to the foot of the Pyrenees, by St. Gaudents, &c. very even to the eye, when viewed from the promenade at Montauban, which commands one of the richeft, as well as magnificent profpects, to be met with in France. This plain I found, however, to be much indented and irregular; for to the W. of Auch, and all beyond it to Bayonne, is too inferior to be admitted; and to the E. Mirepoix, Pamiers, and Carcaffonne are among the hills, and all the way from Agen to bourdeaux, though the river flows through one of the richest vallies that is to be seen in the world, yet the breadth appeared to be every where inconfiderable. Through all this plain, wherever the foil is found excellent, it confifts ufually of a deep mellow friable fandy loam, with moisture sufficient for the production of any thing; much of it is calcarcous. White lime-flone and white chalky loams are found about Cahors &c. and white loams more tenacious near Montauban. At Tonnai ce, on the Garonne, they are red, and

apparently as good at ten feet deep as on the furface.

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[•] It clieve much further; and there is the more reason to think so, because Mr. Townshend found that in another road it reached to Auxere, where he lost it. Juney through Spain, vol. i p. 46.

In travelling from Narbonne to Beziers, Pezenas, Montpellier, and Nifmes, every one I converfed with reprefented that vale as the most fruitful in France. Olives and mulberries, as well as vines, render it very productive; but in point of soil (the only circumstance I consider at present,) much the greater part of it is inferior to all I have named. The Bas Poitou, as I was informed by a person who resides in it, is of a fertility that deserves to be classed with the richest soils of France, extending eighteen leagues by 12, or 216 square leagues, which, at 5,786 arpents per league, are 249,776 arpents. 100,000 arpents of rich marshes have been drained there. Being also informed at Nantes, that there was a very rich track to the S. of the Loire, in the quarter of Bourgneus and Macheoul, I have extended the region of good land to that river, as seen in the annexed man.

feen in the annexed map. The narrow plain of Alface, the whole fertile part of which hardly exceeds the furface of one thousand square miles, must be classed among the richest soils of France. It refembles Flanders a good deal, though inferior to that province. It confifts of a deep rich fandy loam, both moift and friable, equal to the large production of all forts of crops. A more celebrated district is the Limagne of Auvergne, a flat and chiefly a calcareous vale, furrounded by great ranges of volcanic mountains. It is certainly one of the finest foils in the world. It commences at Riom; the plain there is of a beautiful dead level of white calcareous loam, the whole furface of which is a real marl, but fo mixed with bumus as to be of prime fertility. The French naturalists, that have examined it, affert the depth to be twenty feet of beds of earth, formed of the ruins of what they style the primitive granite) and volcanized mountains. At Isloire, Dr. Bres shewing me his farm, in an inferior part of the Limagne (for the best of it reaches no farther than from Riom to Vaires, which is fearcely more than twenty miles), made me observe, that the river had, in all probability, formed the whole plain, as it was adding rapidly to his land, and had given him a depth very perceptible in a few years, having buried the gravelly shingle of its bed, by depositing a rich surface of fandy mud. The vale here, on the banks, is feven or eight feet deep of rich brown fandy foam. On the contrary, there are philosophers who contend for the whole having been a lake. The mountains that furround this vale are various. The white argillaceous stone, in the hills between Riom and Clermont, is calcareous. The volcanic mountains are found to be better than the others, except in the case of tusa or cinders, which are so burnt as to be good for nothing. The calcareous and clayey ones good, and the bafaltes decomposed and become clay excellent. Their base is commonly granite. The calcareous fandy stones, and the argillaceous calcareous earths are heaped on them by the action of volcanoes, according to the theory of the French philosophers. The fertility that refults from the volcanic origin of mountains, has been often remarked, and especially in the case of Ætna; the same sact appeared in many tracts of country as I passed from Le Puy to Montelimart, where many confiderable mountains are covered with beautiful chefnuts, and various articles of cultivation, which in diffricts not volcanic are walte, or in a great meafure ufelefs.

Thave now noticed all the diffricts of France, which, to my knowledge, are of any remarkable fertility: they amount, as it will be shown more particularly in another place, to above twenty eight millions of English acres.

Of the other provinces, Bretagne is generally gravel, or gravelly fand, commonly deep, and on a gravelly bottom, of an inferior and barren nature, but in many places on fand flone rock. I tried various specimens, but found none calcareous; and having

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[.] Des Canaux de Navig. par M. de la Lande, p. 391.

feen a ship at Morlaix unloading lime-stone from Normandy, I may conclude, that the fact does not contradict the conclusion which I drew from the eye. All that I faw in the two provinces of Anjou and Maine are gravel, fund, or flone—generally a loamy fand or gravel; fome imperfect schistus on a bottom of rock; and much that would in the west of England be called a stone brash, and that would do excellently well for turnips: they have the friability, but want the putrid moissure and fertile particles of the better loams. Immense tracks, in both these provinces, are walte, under ling, fern, furze, &c. but the foil of these does not vary from the cultivated parts, and, with cultivation, would be equally good. Touraine is better; it contains some confiderable districts, especially to the south of the Loire, where you find good mixed sandy and gravelly loams on a calcareous bottom; confiderable tracks in the northern part of the province are no better than Anjou and Maine; and, like them, it is not without its heaths and wastes. Sologne is one of the poorest and most unimproved provinces of the kingdom, and one of the most singular countries I have seen. It is flat, consisting of a poor fand or gravel, every where on a clay or marl bottom, retentive of water to fuch a degree, that every ditch and hold was full of it: the improvement of fuch a country is fo obviously effected on the easiest principles, that it is a satire on the French government, and on the individuals who are owners or occupiers of estates in this province, to see it remain in fuch a miferable condition. Berry is much better, though both fandy and gravelly; but good loams, and fome deep, are not wanted in fome districts, as that of Chateauroux, on quarries, and near Vatan on calcareous ones. La Marche and Limofin confilt of friable fandy loans; fome on granite, and others on a calcarcous bottom. There are tracts in these provinces that are very fertile; and I saw none that should be esteemed steril. Of the granite they distinguish two forts; one hard, and full of micaceous particles; the grain rather coarfe, with but little quartz, hardening in the air in masses, but becoming a powder when reduced to small pieces; -this is used for building. The other fort is in horizontal strata, mixed with great quantities of spar, used chiefly for mending roads, which it does in the most incomparable manuer. I was affured at Limoges, that, on the hard granite, there grow neither wheat, vines, nor chefnuts; but upon the other kind, those plants thrive well: I remarked, that this granite and chesnuts appeared together on entering Limofin; and that, in the road to Toulouse, there is about a league of hard granite without that tree. The rule, however, is not general; for fo near as to the S. of Souilac, chefnuts are on a calcareous foil. Poitou confifts of two divisions, the upper and the lower; the last of which has the reputation of being a much richer country, especially the grass lands on the coast. The foil of the upper division is generally a thin loam, on an imperfect quarry bottom -a fort of stone-brash: in fome tracks calcareous: it must be esteemed a poor foil, though admirably adapted to various articles of cultivation. I have already observed, that all I saw of Angoumois is chalk, and much of it thin and poor. Those parts of Guienne and Gascoign, not included in the rich vale of the Garonne, of which I have already spoken, must be considered in respect of foil as poor. The landes (heaths of Bourdeaux,) though neither unproductive, nor unimproveable, are in their prefent state to be classed amongst the worst foils of France. I have been affured, that they contain two hundred leagues fquare; and the roots of the Pyrcnees are covered with immense wastes, which demand much industry to render profitable. Rousfillon is in general calcareous; much of it flat and very stoney, as well as dry and barren: but the irrigated vales are of a most exuberant fertility. The vast province of Languedoc, in productions one of the richest of the king. dom, does not rank high in the scale of soil: it is by far too stoney: - I take seven. eighths of it to be mountainous. I travelled near four hundred miles in it, without feel-

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ing any thing that deserved the name of an extensive plain, that of the Garonne, already mentioned (part of which extends within the limits of Languedoc), alone excepted. The productive vale, from Narbonne to Nilmes, is generally but a few miles in breadth: and confiderable wastes are seen in most parts of it. Many of the mountains are productive, from irrigation, as I have observed too in the volcanic territory of the Vivarais. Some parts of the vale are however very rich; and indeed there are few finer foils in France than what I faw near the canal, in going from Beziers to Carcaffonne. A rich mellow loam, tenacious, and yet friable; in some states the particles adhere into clods; in others they recede and melt with friability. Provence and Dauphine are mountainous countries, with the variation of some lovely plains and vallies, which bear a very inconfiderable proportion to the whole. Of these two provinces, the former is certainly the drieft, in point of foil, in the kingdom. Rock and quarry-land, with fandy gravels, abound there; and the course of the Durance, which in some countries would be a fine vale, is fo ruined by fand and shingle, that, in a moderate calculation, above 130,000 acres have been destroyed, which would have been the finest foil in the country, if it had not been for that river. All I faw in both the provinces is calcareous: and I was informed, that the greater part of the mountains of Provence are fo. Thefe, towards Barcelonette, and in all the higher parts of the province, are covered with good grass, that feeds a million of emigrating sheep, besides vast herds of cattle. With such a foil, and in fuch a climate, a country must not be thought unproductive because The vales which I faw are in general fine: that of the Rhone at Lomountainous. riol, in Dauphiné, is rich,—an admirable fandy clay, five or fix feet deep, on a bed of blue marl with many stones in it. But more to the S. from Montelimart to Orange, this great river passes through foils much inferior. The north plain of this province, as we go from Savoy to Lyons, confilts much of a good deep red loam, on a gravel bottom. The county of Venaisin, or district of Avignon, is one of the richest in the kingdom. Its admirable irrigation, is, of itself, sufficient to make it appear so; but I found the soil to confift of rich deep loam, with white and calcareous clays. The whole coast of Provence is a poor stony foil, with exceptions of very small spaces under happier circumflances. About Aix, the land is all calcareous, even the clays that are red and ferru-This province, however, contains one of the most singular districts in the kingdom, namely, that of the Crau, which is a stony plain to the S. E. of Arles, not containing less than 350 square miles, or 224,000 acres. It is absolutely covered with round stones of all sizes, some of which are as large as a man's head. The soil under them is not a fand, but appears to be a kind of cemented rubble of fragments of stones with a small mixture of loam. The naturalist who has described this province, says, they are of a calcareous nature, with neither the grain nor texture of flint; in some quartzofe molecules predominate-and others are metallic *. Vegetation is extremely thin, as I shall mention more particularly when I treat of the pasturage of sheep in France.

The Lyonois is mountainous, and what I faw of it is poor, stony, and rough, with much waste land. In passing from Lyons to Moulins, it is, near Roanne, on the limits of the province, before the gravelly plain of the Loire commences, the same which M. La Metheric calls the calcareous plain of Montbrisson.

Auvergne, though chiefly mountainous, is not a poor province; the foil, for a hilly country, is in general above mediocrity, and the highest mountains feed vast herds of cattle, which are exported to a considerable amount. Beside a variety of volcanic soils, Auvergne is covered with granite and gravelly and sandy loams.

[•] Hist. Nat. de la Povence, 8vo. 3 tom. 1782. tom. 1. p 290.

The Bourbonnois and Nivernois, form one vast plain, through which the Loire and Allier pass; the predominant soil, in much the greater part, is gravel; I believe commonly on a calcareous bottom, but at considerable depths. Some tracks are fandy, which are better than the gravels; and others are very good frial le fandy loams. The whole, in its present cultivation, must be reckoned amongst the most unproductive provinces of the kingdom, but capable of as great improvement, by a different management as any district in France.

Burgundy is exceedingly diverlified, as I found in crofling it from Franche Compté to the Bourbonnois by Dijon, I faw the best of it; that line is through sandy and gravelly loams; some good vales, some mountains, and some poor granite soils. The subdivision of the province called Bresle, is a miserable country, where the ponds alone, mostly on a white clay or a marl, amount, as it is afferted by an inhabitant *, to sixty-six square leagues of two thousand toises, not much less than two hundred and sifty thousand acres. This is credible from the appearance of them in the map of Cassini.

Franche Compté abounds with red ferruginous loams, schistus, gravel, with limeflone in the mountains very common; and I should remark, that all the stones I tried, some of which were from quarries between Befort to Dole, effervesced with acids. From Besauçon to Orechamps the country is rocky, quite to the surface much limeflone; a reddish brown loam on rock; with iron forges all over the country. The whole province is very improveable.

Loraine is poor in foil; from St. Menehould to the borders of Alface I faw fearcely any other than flony foils, of various denominations; most of them would in England be called flone-brash, or the broken and triturated fursace of imperfect quarries, mixed by time, forest, and cultivation, with some loam and vegetable mould—much is calcareous. There are indeed districts of rich, and even deep friable sandy loams; but the quantity is not considerable enough to deserve attention in a general view. I have already remarked, that the predominant feature of Champagne is chalk; in great tracks it is thin and poor; the southern part, as from Chalons to Troyes, &c. has from its poverty, acquired the name of poulleux, or lousy. The appropriating of such land to fainfoin is little known there.

I have now made the tour of all the French provinces, and shall in general observe, that I think the kingdom is superior to England in the circumstance of soil. The proportion of poor land in England, to the total of the kingdom, is greater than the similar proportion in France; nor have they any where such tracts of wretched blowing sand, as are to be met with in Norfolk and Sussolk. Their heaths, moors, and wastes, not mountainous; what they term lande, and which are so frequent in Bretagne, Anjou, Maine, and Guienne, are infinitely better than our northern moors; and the mountains of Scotland and Wales cannot be compared, in point of soil, with those of the Pyrences, Auvergne, Dauphiné, Provence, and Languedoc. Another advantage almost inestimable is, that their tenacious loams do not take the character of clays, which in some parts of England are so such clays as I have seen in Sussex, I never met with in France. The smallness of the quantity of rank clay in that kingdom, is indeed surprising.

Observations, Expériences, & Memoires sur I.'Agriculture; par M. Varenne de Fenille, 8vo. 1789. p. 270.

Face of the Country.

The chief diffinction that marks the faces of different countries, is that of being mountainous or level. In the language, as well as the ideas common in France, mountains are fpoken of, to which we should give no other appellation than that of hills: the tracks really mountainous in that kingdom are to be found in the S. only. It is four hundred miles S. of Calais before you meet with the mountains of Auvergne, which are united with those of Languedoc, Dauphinee, and Provence, but not with the Pyrenees, for I crossed the whole S. of France, from the Rhone to the ocean, either by plains or ranges of inconfiderable hills. The mountains of Voge, in Loraine, deferve, perhaps, that name, but yet are not to be ranked with the superior elevations I have noticed. The inequalities of all the rest of the kingdom are sufficient to render the prospects interesting, and to give variety to the face of the country, but they deserve not to be called mountains. Some of the hilly and mountainous tracks of France receive a very confiderable beauty from the rich and luxuriant verdure of chefinuts. To those who have not viewed them, it is not easy to believe how much they add to the beauty of the Limofin, the Vivarais, Auvergne, and other diffricts where they are common.

There is no doubt that the Pyrenees are more striking than all the other mountains of France; I have described them so particularly in the Journal, that I would only obtain general here, that their verdure, their woods, their rocks, and their torrents have all the characters of the sublime and beautiful. I saw nothing among the Alps that offered such pleasing scenes as those of the northern parts of Dauphine; which, however, are less varied than those in the neighbourhood of Chambery so abounding in landscapes. According to every account, the course of the Iser is a scene of perpetual beauty. The Vivarais, and part of Velay, are most romantic.

Of the great rivers of France I prefer the Seine, which is every where an agreeable object. I should suppose the reputation of the Loire must have originated from perfons who either had never seen it at all, or only below Angers, where in truth it merits every cloge. From that city to Nantes it is, probably, one of the finest rivers in the world, the breadth of the stream, the islands of woods, the boldness, culture, and richness of the coast, all conspire, with the animation derived from the swelling canvass of active commerce, to render that line eminently beautiful; but for the rest of its immense course, it exhibits a stream of sand; it rolls shingle through vales instead of water, and is an uglier object than I could possibly have conceived, unless I had actually seen it. The Garonne receives more beauty from the country through which it flows than it confers upon it; the slat banks, fringed with willows, are destructive of beauty. I am not equally acquainted with the Rhone; where I saw it, from Montelimart to Avignon, and again at Lyons, it does not interest me like the Seine. The course of the Soane is marked by a noble track of meadows.

In regard to the general beauty of a country, I prefer Limofin to every other province in France. The banks of the Loire below Angers, and those of the Seine, for two hundred miles from its mouth, superior, undoubtedly, in point of rivers, the capital feature of the country; but the beauty of the Limosin does not depend on any particular feature, but the result of many. Hill, dale, wood, inclosures, streams, lakes, and scattered farms, are mingled into a thousand delicious landscapes, which set off every where this province. Inclosures, which add so much ornament to the face of a

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. 1789. *Face* country, would furnish observations, but I must treat of them expressly in a more in-

portant view.

Of the provinces of the kingdom, not already named, none are of fuch fingular features as to demand particular attention. The beauties of Normandy are to be found on the Seine, and those of Guienne on the Garonne. Bretagne, Maine, and Anjou have the appearance of deserts; and though some parts of Touraine are rich and pleafing, yet most of the province is desicient in beauty. The fertile territories of Flanders, Artois, and Alface are distinguished by their utility. Picardy is uninteresting. Champagne in general, where I saw it, ugly, almost as much so as Poitou. Loraine, and Franche Compté, and Bourgogne are sombre in the wooded districts, and want chearfulness in the open ones. Berry and La Marche may be ranked in the same class. Sologne merits its epithet, triste. There are parts of the Angoumois that are gay, and consequently pleasing.

It may be useful to those who see no more of France than by once passing to Italy, to remark, that if they would view the finest parts of the kingdom, they should land at Dieppe and follow the Seine to Paris, then take the great road to Moulins, and thence quit it for Auvergne, and pass to Viviers, on the Rhone, and so by Aix to Italy. By such a variation from the frequented road, the traveller might suffer for want of good inns, but would be repaid by the fight of a much siner and more singular country than the common road by Dijon offers, which passes, in a great measure, through the worst

part of France.

CHAP. III .- Of the Climate of France.

OF all the countries of Europe there is not, perhaps one that proves the importance of climate, fo much as France. In the natural advantages of countries, it is as effential as foil itfelf; and we can never attain to an idea tolerably correct, of the profperity and refources of a country, if we do not know how clearly to afcertain the natural advantages or difadvantages of different territories, and to diferiminate them from the adventitious effects of industry and wealth. It should be a principal object with those who travel for the acquisition of knowledge, to remove the vulgar prejudices which are found in all countries among those who, not having travelled themselves, have built their in-

formation on infufficient authorities.

France admits a division into three capital parts; 1, of vines; 2, of maize; 3, of olives—which plants will give the three diffricts of, 1. the northern, where vines are not planted; 2, the central, in which maize is not planted; 3, the fouth, in which olives, mulberries, vines, and maize are all found. The line of feparation between vines and no vines, as I observed myself, is at Coucy, ten miles to the N. of Soissons; at Clermont, in the Beauvoisois; at Beaumont, in Maine; and Herbignac, near Guerande, in Bretagne. Now there is fornething very remarkable in this, that if you draw a strait line on the map from Guerande to Coucy, it passes very near both Clermont and Beaumont; the former of which is a little to the north of it, and the latter, a little to the fouth. There are vines at Gaillon and La Roche Guyon, which is a little to the N. of this line; there are also some near Beauvais, the most remote from it which I have feen; but even this diffance is inconfiderable; and the melancholy fpectacle of the vintage of 1787, which I saw there in the midst of incessant rains, is a proof that they ought to have nothing to do with this branch of culture: and at Angers I was informed, that there are no vines, or next to none, between that place and Laval and Mayenne. Having made this remark on the vine climate of France, I wished to know

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now how how far the fact held true in Germany; because if the circumstance arose from a difference of climate, it ought, by parity of reason, to be confirmed by vines in that country being found much farther north than in France. This happens precifely to be the case; for I find, by a late author, that vines in Germany are found no further north than lat. 52 . The meeting with these in that latitude is a sufficient proof of the fact in question, since in France their limit is at 491. The line, therefore, which I have drawn as the boundary of vines in France, may be continued into Germany, and will probably be found to ascertain the vine climate in that country, as well as in France. The line of separation between maize and no maize is not less singular; it is first seen on the western side of the kingdom, in going from the Angoumois and entering Poitou, at Verac, near Ruffec. In crofling Loraine, I first met with it between Nancy and Luneville. It is deferving of attention, that if a line is drawn from between Nancy and Luneville to Ruffec, that it will run nearly parallel with the other line that forms the separation of vines: but that line across the kingdom, is not formed by maize in so unbroken a manner, as the other by vines; for in the central journey, we found it no farther north than Douzenach, in the S. of the Limofin; a variation, however, that does not affect the general fact. In croffing from Alface to Auvergne, I was nearest to this line at Dijon, where is maize. In crofling the Bourbonnois to Paris, there is an evident reason why this plant should not be found, which is the poverty of the soil, and the unimproved husbandry of all that country, being universally under fallow, and rye, which yields only three or four times the feed. Maize demands richer land or better management. I saw a few pieces for far north as near La Fleche, but they were so miferably bad, as evidently to prove that the plant was foreign to that climate. In order to give the reader a clearer idea of this, I have annexed a map, explaining, at one coup d'ail, these zones or climates, which may be drawn from the productions of France. Ihe line of olives is pretty nearly in the same direction. In travelling south from Lyons, we see them first at Montelimart; and in going from Beziers to the Pyrenees, I loft them at Carcassonne: now, the line on the map drawn from Montelimart to Carcassonne, appears at once to be nearly parallel with those of maize and vines. Hence we may apparently determine, with fafety, that there is a confiderable difference between the climate of France in the eastern and western parts: that the eastern side of the kingdom is two and a half degrees of latitude hotter than the western, or if not hotter, more favourable to vegetation. That these divisions are not accidental, but have been the refult of a great number of experiments, we may conclude from these articles of culture in general gradually declining before you quite lofe them. On quitting the Angoumois, and entering Poitou, we find maize dwindling to poor crops, before it ceases to be cultivated; and in going from Nancy to Luneville, I noticed it in gardens, and then but in finall pieces in the fields, before it became a confirmed culture. made the fame remark with respect to vines. It is very difficult to account for this fact; it feems probable that the climate is better when remote from the fea, than near it, which is contrary to numerous other facts; and I have remarked, that vines thrive even in the fea air, and almost fully exposed to it, at the mouth of the river Bayonne, and in Bretagne. A great many repeated observations must be made, and with more attention than is in the power of a traveller before such a subject, apparently very curious, can be thoroughly afcertained. In making such inquiries as thefe, a general culture is alone to be regarded: vines will grow in England; I have maize now on my own farm-and I have feen it at Paris; but this is not the question; for it turns folely on

[.] De la Mona chie Prufficane, par M. le Compte de Mirabeau. tom 11. p. 158.

the climate being fo well adapted to fuch a ticles as to enable the farmer to make them

a common culture.

Of the northern climate of France I may remark, that though vines will yield little profit in it for wine, yet there is a strong distinction, in respect of heat, between it and England, at the fame time, that much of it is, I believe, to the full as humid as the S. and E. of England. The two circumflances to be attended to in this inquiry are, the quantity of fruit and the verdure and richness of pattures. In regard to heat, we must attend neither to the thermometer nor to the latitude, but to the vegetable productions. I travelled in the fruit feafon through Artois, Picardy, Normandy, Bretagne, Anjou, and Maine, and I found at every town, I might properly fay at every village, fuch a plenty of fruit, particularly plumbs, peaches, late cherries, grapes, and melons, as never can be feen in England in the very hottest summers. The markets of all the towns. even in that poor and unimproved province of Bretagne are supplied with these in a profusion of which we have no idea. It was with pleasure I walked through the market at Rennes. If a man were to fee no other in France, lighting there from an English balloon, he would in a moment pronounce the climate to be total'y different from that of Cornwall, our most foutherly county, where myrtles will stand the winter abroad; and from that of Kerry, where the arbutus is fo ac-climated, that it feems indigenous, though probably brought from Spain by the original inhabitants of the country. Yet in this province of Bretagne I faw no maize nor mulberries, and, except in the corner I have mentioned, it has no vineyards. Paris is not supplied with melons from provinces to the S., but from Harfleur, at the mouth of the Seice.

For the humidity of the climate, I may quote the beautiful verdure of the rich pastures in Normandy, which are never irrigated. And I was a witness to three weeks of such rain at Liancourt, four miles only from Clermont, as I have not known, by many degrees, in England. To the great rains in the N. of France, which render it disagreeable, may be added the heavy snows and the severe frosts, which are experienced there to a greater degree than in the S. of England. I am assured that the N. of Europe has not known a long and sharp frost, which has not been much severer at

Paris than at London.

The central division that admits vines without being hot enough for maize, I confider as one of the finest climates in the world. Here are contained the province of Touraine, which, above all others, is most admired by the French; the picturefaue province of Limofin; and the mild, healthy, and pleafant plains of the Bourbonnois; perhaps the most eligible countries of all France, of all Europe, as far as foil and climate are concerned. Here you are exempt from the extreme humidity which gives verdure to Normandy and England; and yet equally free from the burning heats which turn verdure itself into a ruffet brown in the S.; no ardent rays that oppress you with their fervor in fummer; nor pinching tedious frolls that chill with their feverity in winter; a light, pure, elastic air, admirable for every constitution except consumptive ones. But at the fame time that I must commend these central provinces of France, for every circumstance of atmosphere that can render a country agreeable to inhabit, I must guard the reader against the idea of their being free from great inconveniences; they are certainly fubject to those in relation to agriculture, which are heavily felt by the farmer. They are subject, in common with the olive district, to violent storms of rains and what is worfe, of hail. Two years ago, a fform of hall fwept a track of defolation in a belt across the whole kingdom, to the damage of several millions of our money. Such extended ruin is not common, for, if it were, the finest kingdoms would be laid waste; but no year ever passes without whole parishes suffering to a degree of which

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we have no conception, and on the whole to the amount of no inconfiderable proportion of the whole produce of the kingdom. It appears, from my friend Dr. Symond's paper on the climate of Italy *, that the mischief of hail is adful in that country. I have heard it calculated in the S. of France, that the damage in some provinces amounted to one-tenth of the whole produce of them upon an average. A few days before my arrival at Barbefieux, there had fallen, at the Duke de la Rochefoucauld's feat in the Angoumois, and fome neighbouring parishes, a shower of hail that did not leave a fingle grape on the vines, and cut them to feverely, as to preclude all hope of a crop the year tollowing, and allowed no well-founded expectation of any beneficial produce even the third year. In another place, the geefe were all killed by the fame ftorm; and young colts were so wounded that they died alterwards. It is even afferted, that men have been known to be killed by hail, when unable to obtain any shelter. This storm destroyed a copse of the duke's, that was of two years growth. With such effects, it must be obvious to every one, that all forts of corn and pulse must be utterly destroyed. At Pompinian, between Montauban and Toulouse, I was witness to fuch a shower of rain as never fell in Britain; in that rich vale, the corn, before the storm, made a noble appearance; but imagination can hardly picture a more entire destruction than it poured over the whole; the finest wheat was not only beaten slat to the ground, but streams of liquid mud covered it in many places, in a manner that made all expectation of recovery hopeless. These hasty and violent showers, which are of little confequence to a traveller, or to the residence of a gentleman, are dreadful feourges to the farmer, and immense drawbacks from the mass of national products.

A circumstance of less consequence, but not undeserving attention, is the frosts which happen in the fpring. We know in England how injurious these are to all the fruits of the earth, and how much they are supposed to damage even its most important product. Towards the end of May 1787, I found all the walnut trees with leaves turned quite black by them, S. of the Loire; and farther to the S., at Brive, we no fooner faw fig-trees, for the first time scattered about the vineyards, than we remarked them bound about with straw to defend them from the frosts of June. Still more to the S., about Cahors, the walnut trees were black on the 10th of June by frosts, within a fortnight; and we were informed of rye being in some years thus killed; and that rarely there is any spring month secure from these unseasonable attacks. In the N. E. quarter I found, in 1789, the frost of the preceding winter had made a sad havock amongst the walnut trees, most of which were killed in Alsace, and the dead trees made a strange figure in summer; they were left in expectation of their shooting again, and fome few did. From Autun in Burgundy, to Bourbon Lancey, the broom was all killed. Spring frosts were also complained of as much as on the other side of the kingdom. About Dijon, they faid that they have them often late, and they damage or destroy every thing. And all the countries within reach of the mountains of Voge are affected by the fnow that falls upon them, which was in 1789, on the 29th of June. This renders the vineyard an uncertain culture. Perhaps it may arife from the late frosts in the spring, that we meet with so few mulberries in France N. of the olive diftrict. The profit of that tree is very great, as I shall explain fully in another place; yet the diffricts, where they are found in France, are very inconfiderable, when compared with the extent of the whole kingdom. It has been conceived in England, that the mildew is owing to late frofts; when I found myself in a region where rye was sometimes thus killed in June, and where every walnut hung with black, I naturally en-

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^{*} Annals of Agriculture, vol. iii. p. 137.

quired for that distemper, and found in some places, near Cahors for instance, that their wheat was perfectly exempt from that malady in many springs, when other plants suffered the most severely; and we met even with farmers whose lands were so little subject to the distemper that they hardly knew it. This should seem to set aside the theory of frosts being the cause of that malady. As spring frosts are as mischievous in France as they can be with us, so also are they troubted with autumnal ones earlier than is common with us. On the 20th of September 1787, in going on the S. of the Leire, from Chambord to Orleans, we had so finant a one, that the vines were hurt by it; and there had been, for several days, so cold a N. E. wind, yet with a bright sun,

that none of us flirred abroad without great coats.

The olive-climate contains but a very inconfiderable portion of the kingdom, and of that portion, not in one acre out of tifty is this tree cultivated. Several other plants, befide the olive, mark this climate. Thus at Montelimart, in Dauchine, befides that tree, you meet with, for the first time, the pomegranate, the arbor judæ, the paliurus, figs, and the evergreen oak; and with these plants, I may add also that detestable animal the mosquito. In crossing the mountains of Auvergne, Velay, and Vivarais, I met, between Pradelles and Thuytz, mulberries and flies at the fame time; by the term flies, I mean those myriads of them, which form the most disagreeable circumstance of the fouthern climates. They are the first of torments in Spain, Italy, and the olivedistrict of France: it is not that they bite, sting, or hurt, but they buz, teaze, and worry: your mouth, eyes, ears, and nofe, are full of them: they fwarm on every eatable, fruit, fugar, milk, every thing is attacked by them in fuch myriads, that if they are not driven away inceffantly by a perfon who has nothing elle to do, to eat a meal is impossible. They are, however, caught on prepared paper, and other contrivances, with fo much case, and in such quantities, that were it not from negligence they could not abound in fuch incredible quantities. If I farmed in those countries, I think I should manure four or five acres every year with dead flies. Two other articles of culture in this climate, which deferve to be mentioned, though too inconfiderable to be a national object, are capers in Provence, and oranges at Hieres. The fatter plant is fo tender, that this is supposed to be the only part of France in which it will thrive in the open air. The whole of Rouffillon is to the fouth of this, yet none are to be found there. I went to Hieres to view them, and it was with pain I found them almost, without exception, fo damaged by the frost, in the winter of 1788, as to be cut down, some to the ground, and others to the main flem. Vaft numbers of olives were in the fame fituation throughout the whole olive-diffrict, and abundance of them abfolutely killed. Thus we find, that in the most foutherly part of France, and even in the most sheltered and fecure fituations, fuch fevere frosts are known as to destroy he articles of common cultivation.

In the description I took of the climate of Provence, from Monf. le Prefident, Baron de la Tour d'Aigues, he informed me, that hail, in fome years, does not break glafs; but it was mentioned as an extraordinary thing. The only feafons in which is to be expected rain with any degree of certainty, are the equinoxes, when it comes violently for a time. No dependence for a fingle drep in June, July, or August, and the quantity always very small; which three months, and not the winter ones, are the pinching season for all great cattle. Sometimes not a drop falls for fix months together. They have white frosts in March, and sometimes in April. The great heats

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[•] A writer, who has been criticifed for this affection, was therefore right:—" Telle eff la position des provinces du midi on l'on reste souvent, six me is entiers, saus voir tomber une seule goutte d'eau." Corps Complet d'Agri. tom vi.i. p. 56.

are never till the 15th of July, nor after the 15th of September. Harvest begin 24th, and ends July 15th-and Michaelmas is the middle of the vintage. In my years no flow is to be feen, and the frosts not severe. The spring is the worst 1 and in the year, because the vent de bize, the mastrale of the Italians, is terrible, and fallcient, in the mountains, to blow a man off his horfe; it is also dangerous to the health, from the fun, at the fame time, being both high and powerful. But in December, January, and February, the weather is truly charming, with the bize very rarely, but not always free from it; for on the 3d of January 1786, there was fo furious a machrale, with fnow, that flocks were driven four or five leagues from their pastures; numbers of travellers, thepherds, theep and affes in the Cran perified. Five thepherds were conducting eight hundred fleep to the butcheries at Marfeilles, three of whom, and almost all the sheep, perished *. To make a residence in these provinces agreeable, a man should also avoid the great summer heats. For during the last week in July, and fome days in August, I experienced such a heat at Carcassonne, Mirepoix, Pamiers, &c. as rendered the least exertion, in the middle of the day, oppressive; it exceeded any thing I felt in Spain. It was impossible to support a room that was light. No comfort but in darkness; and even there rest was impossible from myriads of slies t. It is true, fuch heats are not of long duration; if they were so, nobody, able to quit the country, would refide in it. These climates are disagreeable in spring and summer, and delicious in winter only. In the Bourbonnois, Limofin, and Touraine, there is no vent de bize. On the mountains above Tour d'Aigues, are chiefly found lavendulathymus—ciftus rofea—ciftus albidus—foralia bitumina—buxus femper virens—quercus ilex—pinus montana—rofmarinus officinalis—rhamnus cathartica—geniftis montis ventofa—genista Hispanica—juniperus Phœnicia—fatureja montana—bromus fylvatica, &c. In the stubbles of all the olive-district, and in every waste spot are found centaurea calycitropa—centaurea folftitialis,—alfo the eryngium campeftrum, and the eryngium amethystinum:-they have fown in Provence the datura strimonium, which is now habituated to the country. In the mountains, from Cavalero to Frejus, and also in that of Estrelles, the lentiscus—invrtus—arbutus—lavendula—cistus—and laurustinus.

Upon a general view of the climate of France, and upon comparing it with that of countries, not fo much favoured apparently by nature, I may remark, that the principal superiority of it arises from adapting so large a portion of the kingdom to the culture of the vine; yet this noble plant is most unaccountably decried by abundance of writers, and especially by French ones, though the farmer is enabled to draw as extensive a profit from poor and otherwise barren, and even almost perpendicular rocks, as from the richest vales. Hence immense tracks of land may be ranked in France among the most valuable, which in our climate would be absolutely waste, or at least applied to no better use than warrens or sheep walks. This is the great superiority which climate gives to that kingdom over England:—of its nature and extent, I shall treat fully under another head.

The object of the next importance is peculiar to the olive and maize diffricts, and confifts in the power of having, from the nature of the climate, two crops a-year on

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[•] Traité de l'Olivier, par M. Coulure, ii. tom. Evo. Aix, 1786. tom. i. p. 79. † I have been much surprifed, that the late learned Mr. Harmer should think it odd to find, by writers who treated of fouthern climates, that driving away flies was an object of importance. Had he been with me in Spain and in Languedoc, in July and August, he would have been very far from thinking there was any thing odd in it. Observ. on divers Passages of Scripture, vol. iv. p. 150.

vaft tracks of their arable land: an early harvest, and the command of plants, which will not thrive equally well in more northern climates, give them this invaluable advantage. We fee wheat flubbles left in England, from the middle of August, to yield a few shillings by sheep, which, in a hotter climate, would afford a second crop, yielding food foreman, fuch as millet, the fifty day maize (the cinquantina of the Italians' &c.; or prove a better feafon for turnips, cabbages, &c. than the common feafon for them here. In Dauphine, I faw buck-wheat in full bloffom the 23d of August, that had been fown after wheat. I do no more than name it here, fince, in another place, it must be examined more particularly. Mulberries might in France be an object of far greater importance than they are at prefent, and yet the fpring frosts are fatal impediments to the culture: that this plant must be considered for all important purposes, as adapted only to fouthern climates, appears from this, that Tours is the only place I know in France, north of the maize climate, where they are cultivated for filk with any fucces; confiderable experiments have been made (as I shall show in the proper place) for introducing them into Normandy and elsewhere, but with no success; and the force of this observation is doubled, by the following fact - that they fucceed much better in the olive climate than in any part of the kingdom. But that they might be greatly extended, cannot for a moment be doubted. In going fouth, we did not meet with them till we came to Caufade, near Montauban. In returning north, we faw them at Auch only -A few at Aguillon, planted by the Duke—the promenade at Poitiers planted by the intendant-and another at Verteul, by the Duke d'Anville; all which are experiments that have not been copied, except at Auch. But at Tours there is a small district of them. In another direction, they are not met with after Moulins, and there very few. Maize is an object of much greater confequence than mulberries; when I give the courses of the French crops, it will be found that the only good hutbandry in the kingdom (fome finall and very rich diffricts excepted) arifes from the possession and management of this plant. Where there is no maize, there are fallows; and where there are fallows, the people flarve for want. For the inhabitants of a country to live upon that plant, which is the preparation for wheat, and at the fame time to keep their cattle fat upon the leaves of it, is to possess a treasure, for which they are indebted to their climate. The quantity of all the common forts of fruits, which, through the greater part of France, is fuch as to form a confiderable object in the subfishence of the great mass of people, is a point of more consequence than appears at first fight. To balance these favourable circumstances, other countries, not so happily situated (especially England) have advantages of an opposite nature, which are very material in the practice of their agriculture: that humidity of atmosphere, which the French provinces north of vines enjoy—which Fngland has in a greater degree, and Ireland still more, and which is better marked by the hygrometer than by the rain gage, is of fingular importance in the maintenance of cattle by pasturage, and in adapting the courses of crops to their support. Artificial graffes, turnips, cabbages, potatoes, &c. thrive best in a humid climate. It would take up too much room here fully to explain this; to mention it will be fufficient for those who have reflected on fimilar subjects. From a due attention to all the various circumftances that affect this question, which, relatively to agriculture, is the best climate, that of France, or that of England?—I have no hesitasion in giving the preference to France. I have often heard, in converfation, the contrary afferted, and with fome appearance of reason—but I believe the opinion has arisen more from confidering the actual state of husbandry in the two countries, than the difinch properties of the two climates. We make a very good use of our's; but the French are, in this respect, in their infancy, through more than half the kingdom *.

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CHAP. V .- Of the Population of France.

AS the subject of population is best treated by an inquiry into the industry, agriculture, divition of landed property, &c. I shall at prefent merely lay before the reader fome facts collected with care in France, that afford useful data for political arithmeticians. Mouf. l'Abbé Expilly, in his Dictionnaire de la France, makes the number 21,000,000. And the Marqu's de Mirabeau † mentions an enumeration of the kingdom in 1755; total 18,107,000. In Normandy 1,665,200, and in Bretagne 847,500. Monf. de Buffon, in his Hifloire Naturelle, affigns for the population of the kingdom 22,672,077. Monf. Mellance, in his Recherches fur la Population, 4to. 1766, gives the details from which he draws the conclusion, that in many towns in Auvergne the births are to the number of inhabitants as 1 to 24 1 10 10; the marriages per annum 1 to 114 inhabitants; and families, one with another, composed of 51 14, or 24 families contain 124 inhabitants. In various towns in the Lyonnois, births are to the inhabitants as 1 to 231; the marriages per annum 1 to 111 perfons; and families composed 4 4 7 to 1; 80 families contain 381 inhabitants. In various towns in Normandy the births to the inhabitants as 1 to 271 2 ; marriages per annum 1 to 114 perfons; families are composed of 31 1 26; 20 represent 76 inhabitants. In the city of Lyons families are composed of 51 %; 60 represent 316 inhabitants; and there are a few above 24 persons per house in that city. In the city of Rouen families are composed of 6 to perfons; and there are 6 to to perfons per house. At Lyons 1 in 351 dies annually; at Rouen 1 in 27 . Mean life in fome parishes in the generality of Lyons 25 years; ditto in the generality of Rouen 25 years 10 months. At Paris 1 in 30 dies annually: a family confifts of 8, and each house contains 241 persons. By comparing the number of births in every month at Paris, for forty years, he found that those in which conception flourished most were May, June, July, and August, and that the mortality for forty years was as follows:

Months. Deaths. March, - 77,80; April, - 76,81; May, - 72,19	February, December, June,	66,789 60,926 58,272	Months. October, September, November,	Deaths. 54,897 54,339 54,029
January, 69,160	July, -	57,339	August,	52,479

It should appear from this table, that the influence of the sun is as important to human health as it is to vegetation. What pity that we have not similar tables of cities in all the different latitudes and circumstances of the globe.

^{*} The minute details concerning agriculture are omitted, as, however valuable in themselves, they little accord with the nature of this publication.

[†] L'Ami des Hommes. 1760. 5th edit. tom. iv. p. 184.

The committee of Mendicite afferts, that each family in France confifts of five, as each has three children. Cinquieme Rapport, p. 34.

At Clermont Ferrand 1 in 38 dies annually.—At Carcaffonne 1 in 221.—At Valence 1 in 24 f - At Vitry le François 1 in 23 f. - At Elbœuf 1 in 29 f. - At Loviers 1 in 31 f. -At Honfleur 1 in 24. -At Vernon 1 in 25.-At Gifors 1 in 29.-At Pont-au-de-Mer 1 in 33.—At Neufchatel 1 in 24!.—At Pont l'Eveque 1 in 26.—At le Havre 1 in 35. Upon a comparison in seven principal provinces of the kingdom, population in fixty years has augmented in the proportion of 211 to 196, or a thirteenth. General deduction; -- that the number of people in France in 176; was 23,909,400. Monf. Moheau * gives to the best peopled provinces 1700 inhabitants per square league; and to the worst 500; the medium 872, at which rate he makes the total 23,500,000, and an increase of a ninth fince 1688. The isle of Oleron is peopled at the rate of 2886 per league, and that of Ré 4205. He also calculates that 1 in 36 dies, and 1 in 26 is born every year. Monf. Necker, in his work de l'Administration des Finances de la France, has the following particulars, which it is also necessary to have in our attention: -Births in the whole kingdom per annum, on an average, of 1776, 77, 78, 79, and 8c, were 963,207:—which, multiplied by 25\frac{1}{4}, the proportion he fixes on, gives 24,802,580 inhabitants in France. He notices the groß error of the aconomiftes, in estimating the population of the kingdom at 15 or 16 millions.—A later authority, but given in whole numbers, and therefore not accurate, flates the population of the kingdom at 25,500,000, of which the clergy are supposed to be 80,000, the nobility 110,000, the protestants 3,000,000, and Jews 30,000 t: the committee of imposts affert, that to multiply the births in the cities of France by 30, will give their population with fufficient truth; but for the country not fo high ‡. The rule of 30 would make the population 28,896,210. But much later than all these authorities, the National Affembly has ordered fuch enquiries to be made into the population of the kingdom, as have produced a much greater degree of accuracy than was ever approached before: this has been done by the returns of taxes, in which all perfons, not liable to be charged are entered in what we should call the duplicates; and as the directions for making these lifts are positive and explicit, and no advantage whatever results to the people by concealing their numbers, but on the contrary, in many inflances, they are favoured in taxation, by reason of the number of their children, we may furely conclude, that these returns are the fafest guides to direct our calculations. Here follows the detail:

* Recher, fur la Population de la France, 8vo. 1778.

1 Ropfort de Comité d' Impof. jur les Taxes, p. 27.

⁺ Bibliotkeque de l'Fionme Publique, par Mess. de Condorcet, Peysonnel, & le Chapelier, tom iii.

Etat générale de la Population du Royaume de la France.

Nο	Noms des Départemens	Population	Pop. des vil- lages & des Campagne,	Total de la population.	No.	Noms des Departemens.	Population les volles & bourgs.	Pop, d.s vil- lages & des Gampagne,	Tital de la population.
	L'Ain,	42,300	251.566	293,866		Brought forward,	2,447,880	10,019,531	12,599,677
2	L'Ame,	86,800	305,253	392,053	4.1,	Du l'Oriet, -	84,600	185,266	269,866
3.	L'Allier, -	11,800	203,280	2,16,080	44,	Du Lot, -	55,100	212,900	268,000
4.	Les Hautes Alpes,	29,500		181,333	4.5,	Du Lot & Garonne,	39,200	262,666	308,666
5.	Des Balles Alpes,	38,060	180,606	218,665	46,	La Loverre, -	19,400	176,226	195,626
6	L'Ardeche, -	24,600	185,533	210,133	47,	De Maine & Loire,	94,000	200,666	291,666
7.	Les Ardannes, -	62,100	113,260	175,160	48,	La Manche, -	83,100	242,566	330,666
	L'Arieges, -	31,400	139,266	170,666	425	La Marne, -	76,200	206,466	282,666
9	L'Aabe, -	40,100	157,235	1)7:355	50,	La Hute Marne,	36,100	177,293	213,393
10.	L'Aude, '-	48,400	203,120	251,520	5 ,	La Mayenne, -	73,600	248,533	322,133
11,		46,500	250,135	2,6,635	52,	La Meurte, -	65,900	314,336	380,266
12		163,200	158,933	322,133	53,	La Meule, -	58,100	1,74,106	252,266
13.	Le Calvados, -	105,350	329,850	435,200		Le Morbihan, -	42,400	443,266	490,666
14	Le Cantal, -	39,950	237,385	277,335	55.	La Mozelle, -	67,000	223,133	290,133
15	La Charente, -	44,100	224,060	268,160	56,	La Nyevre, -	34.500	216,100	2,52,600
16,	La Charente Inféri-			!	575	Le Nord,	169,300	399,733	568,533
1	eure, -	89,120	279,306	368,426	58,	L'O.fe,	53,900	266,100	320,000
17,	Le Ch.r, -	47,000	228,366	576,260	595	L'Orne, -	57,800	328,333	31.6,133
18,		52,750	221,692	254,442		Du Paris,	1,56,800	168,533	725-333
19,	La Corfe, -			132,266		Le Pas de Calais, -	79,600	507,006	586,666
20,	La Côté d'Or, -	59,350	367,983	427,333		Le Puy de Dome,	82,550	312,783	405,333
21,		27,500	441,166	468,666		Les Hautes l'yrennées,	3,,000	122,860	157,866
	La Creute, -	22,800	244,293	267,09.1	64,		55,47°	23:,405	226,955
23,	La Dordegne, -	51,900	3531433	405,333	65,	Les Pyrennées Orien-	22.500		.6
24:	Le Dombs, -	36,500	187,500	224,000		tales,	31,100	276,633	162,133 306,133
25,	La Drome, -	29,900	194,100	224,000	66,	Le Haut Rhin, -	27,300	272,366	
26,	L'Eure, -	76,000	323,400	400,000	67,	1.e Bas Rhin.	90,500		362,666
27,		44,350		2,10,100		Le Rhone & Leire,	21,5,000	231,966	250,666
28,		63,000		480,000	6),	La Haute Saonne, -	16,700 60,100	342,033	402,133
29,	Du Gaid, -	100,00	12,5900		70,	Saonne & Loire, -	66,500		362,666
30,	De la Faute Garonne,	71,600	18053		71,	La Sarte, -	105,900		320,000
31,	Du Gers,	54,000		268,800 603,000	72,	Seine & Oife, -	184,550		
32,	La Gironde, -	200,000	403,000	264,533	73,	La Seine & Marne,	51,300		
33.	D'Hérault, -	108,700	155,823	440,666		Des deux Sevres,	:6,300		
34.	L'Ille et Villaine,	50,800	439,866		751	La Somme, -	91,600		
35	1 Indie, -	10,630				Le Tarn,	\$1,900		
36	I 'Indre et Loire,	82,000	267,366		77,	Le Var.	49,900		
37.	L'Here, -	3,3,700			79,	La Vend-e,	34,000		
	Du Jura, -	30,900	218,700		80,		48, 00		
39.	Des Landes, -	36,500				La Haute Vienne,	41.300		
40.	Loire et Cher, -	51,400		1 '	82,	Les Votaes, -	28,200		
41.	La Haute Leise,	41,100				L'Youne, -	72,000		
42.	La Lone leténeure,	168,100	379,633	507,733	05,	112 100016,	/ -1/00	,,,,,,,,,,	4,19,1400
	Corry forward.	2,147,.30	10,019 (11	12,099,677	!	Tetal	1.700,1270	20.121.53	126.6350*4

Effinating the acres at 131,722,295, and the people as here detailed, we find that it makes, within a finall fraction, five acres a head. That proportion would be 131,815,270 acres. If England were equally well peopled, there should be upon 46,915,933 acres, rather more than 9,000,000 souls. And for our two islands, to equal France in this respect, there should be in them 19,867,117 souls; instead of which there are not more than 15,000,000.

An observation, rather curious, may be made on this detail; it appears, that less than one-fourth of the people inhabit towns; a very remarkable circumstance, because it is commonly observed, and doubtless founded on certain facts, that in flourishing countries the half of a nation is found to towns. Many writers, I believe, have looked upon this as the proportion in England: in Holland, and in Lombardy, the richest countries in Furope, the same probably exists. I am much inclined to connect this singular fact, relating to France, with that want of effect and success in its agriculture, which I have remarked in abuost every part of the kingdom; resulting also from the extreme civition of the foil into little properties. It appears likewise, from this detail, that their towns

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are not confiderable enough to give that animation and vigour to the industry of the country, which is best encouraged by the activity of the demand which cities afford for the products of agriculture. A more certain and unequivocal proof of the justice of my remarks, on the too great and mischievous division of landed property and farms in that kingdom could hardly have arifen: and it yields the clearest conviction, that the progress of national improvement has been upon the whole but finall in France. The manufactures and commerce of the kingdom must have made a less advance than one would have conceived possible, not to have effected a proportion far different from this of a fifth. A really active industry, proportioned to the real resources of the kingdom, should long ago have purged the country (to use an expression of Sir James Stuart's) of those superfluous mouths, —I do not fay hands; for they eat more than they work; and it is their want of employment that ought to drive them into towns. Another observation is suggested by this curious table of population: I have repeatedly, in the diary of my journey, remarked, that the near approach to Paris is a defert compared to that of London; that the difference is infinitely greater than the difference of their population; and that the want of traffic, on the high roads, is found every where in the kingdom as well as at Paris. Now it deferves notice, that the great refort, which is every where observable on the highways of England, flows from the number, fize, and wealth of our towns, much more than from any other circumstance. It is not the country, but towns that give the rapid circulation from one part of a kingdom to the other; and though, at first fight, France may be thought to have the advantage in this respect, yet a nearer view of the subject will allow of no fuch conclusion. In the following lift, the English column has furely the advantage:

English.	French.	English.	French.
London,	Paris,	Manchester,	Rouen,
Dublin,	Lyons,	Birmingham,	Lille,
Edinburgh,	Bourdeaux,	Norwich,	Nifmes.
Liverpool,	Marfeilles,	Cork,	St. Malo,
Briftol.	Nantes.	Glafgow,	Bayonne,
Newcaitle.	Havre,	Bath,	Verfailles.
Hull,	Rochelle,	•	

The vaft fuperiority of London and Dublin, to Paris and Lyons, renders the whole comparison ridiculous. I believe, London, without exaggeration, to be alone equal to Paris, Lyons, Bourdeaux, and Marfeilles, as appears by the lifts of population, and by the wealth and trade of all. But if we reflect, that the towns of England, &c. are portions of a population of fifteen millions only, and those of France parts of twenty-fix millions, the comparison shews at once the vastly greater activity there must be in one country than in the other *.

Of all the subjects of political economy, I know not one that has given rise to such a cloud of errors as this of population. It feems, for some centuries, to have been confidered as the only sure test of national prosperity. The politicians of those times, and

n cotting to the tri

[•] What can be thought of those marvellous politicians, the nobility of Dourdon, who call for entrées at the gates of the cities, not as a good mode of taxation, but to restrain the too great populousness of cities, "which never takes place but by the depopulation of the country." Cahier, p. 20. The Count de Mirabeau, in his Monarchie Prussienne, recurs often to the same idea. He was grossly erroneous, when he stated the subjects of the King of France as thrice more numerous than those of England, if he meant hy England, as we are to suppose, Scotland and Ireland also, tom. is p. 402.

the majority of them in the present, have been of opinion, that, to enumerate the people, was the only step necessary to be taken, in order to ascertain the degree in which a country was flourishing. Two-and-twenty years ago, in my "Tour through the North of England, 1769," I entered my caveat against such a doctrine, and prefumed to affert, "that no nation is rich or powerful by means of mere numbers of people; it is the indutrious alone that conflitute a kingdom's strength; that affertion I repeated in my "Political Arithmetic, 1774;" and in the fecond part, 1779, under other combinations. About the fame time agenius of a fuperior cast (Sir James Stuart,) very much exceeded my weak efforts, and, with a mafterly hand, explained the principles of population. Long fince that period, other writers have arisen who have viewed the subject in its right light; and of these none have equalled Monf. Herenschwandt, who, in his "Economie Politique Moderne, 1786;" and his "Difcours fur la Division des Terres *, 1788," has almost exhausted the subject. I shall not, however, omit to name the report of the committee of Mendicité in the National Affembly. The following paffage does the highest honour to their political discernment: - "C'est ainsi que malgré les assertions, sans cesse répetées depuis vingt ans, de tous les écrivains politiques qui placent la prosperité d'un empire dans sa plus grande population, une population excessive sans un grand travail & sans des productions abondantes, seroit au contraire une dévorante surcharge pour un etat; car, il faudroit alors que citte excessive population partageat les benefices de celle qui, sans elle, eut trouvé une subsistence suffigante; il faudreit que la même somme de travail fut abandonnée à une plus grande quantité de bras; il faudroit enfin necessairement que le prix de ce travail buiffat par la plus grande concurrence des travailleurs, d'on refulteroit une indigence complette pour ceux qui ne trouveroient pes de travail, & une subsistance incomplette pour ceux-mêmes aux quels il ne seroit pas refuse ?"—France itself affords an irrefragable proof of the truth of these sentiments; for I am clearly of opinion, from the observations I made in every province of the kingdom, that her population is fo much beyond the proportion of her industry and labour, that she would be much more powerful, and infinitely more flourishing, if she had five or fix millions less of inhabitants. From her too great population, the prefents, in every quarter, fuch spectacles of wretchedness, as are absolutely inconsistent with that degree of national felicity, which she was capable of attaining even under her old government. A traveller much lefs attentive than I was to objects of this kind, must fee at every turn most unequivocal signs of distress. That these should exist, no one can wonder who considers the price of labour, and of provisions, and the mifery into which a finall rife in the price of wheat throws the lower classes; a mifery, that is fure to increase itself by the alarm it excites, lest subfishence should be wanted. The causes of this great population were certainly not to be found in the benignity of the old government yielding a due protection to the lower classes, for, on the contrary, it abandoned them to the mercy of the privileged orders. It is fair, however, to observe, that there was nothing in the principles of the old government, so directly inimical to population, as to prevent its increase. Many croaking writers in France have repeatedly announced the depopulation of that kingdom, with pretty much the fame truth and ingenuity that have been exercised on the same subject in England. Monf. Necker, in a very fenfible passage, gives a decisive answer to them, which is at the same time thoroughly applicable to the state of England, as well as to that of France 1. Nor can the great population of France be attributed to the climate, for the tables of births

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^{*} See particularly, p. 48, 51. &c.

[†] P'an de Travail du Comité pour l'extinction de la Mendicité presenté par M. de Liancourt. Svo. p. 6, 1790.

[†] De l'Administ. des Finances. Ouvres. 4to. Londres. p. 320.

and burials offer nothing more favourable in that kingdom, than in our own. And a much worfe climate in Holland and Flanders, and in fome parts of Germany and Italy, is attended with a still greater populousness. Nor is it to be imputed to an extraordinary prosperity of manufactures, for our own are much more considerable, in proportion to

the number of people in the two countries.

This great populoufness of France I attribute very much to the division of the lands into fmall properties, which takes place in that country to a degree of which we have in England but little conception. Whatever promifes the appearance even of fubliftence, mduces men to marry. The inheritance of ten or twelve acres to be divided amongst the children of the proprietor, will be looked to with the views of a permanent fettlement, and either occasions a marriage, the infants of which die young for want of fusicient nourishment †; or keeps children at home, distressing their relations, long after the time that they should have emigrated to towns. In districts that contain immense quantities of waste land of a certain degree of fertility, as in the roots of the Pyrenees, belonging to communities ready to fell them, economy and industry, animated with the views of fettling and marrying, flourish greatly: in such neighbourhoods something like an American increase takes place; and, if the land be cheap, little distress is found. But as procreation goes on rapidly, under fuch circumstances, the least check to subfiftence is attended with great inifery; as wastes becoming dearer, or the best portions being fold, or difficulties arifing in the acquifition; all which cases I met with in those mountains. The moment any impediment happens, the diffress of such people will be proportioned to the activity and vigour which had animated population. It is obvious, that in the cases here referred to, no distress occurs, if the manufactures and commerce of the district are fo flourishing as to demand all this superfluity of rural population as fast as it arises; for that is precisely the balance of employments which prevails in a well regulated fociety; the country breeding people to supply the demand and consumption of towns and manufactures. Population will, in every state, increase perhaps too fast for this demand. England is in this respect, from the unrivalled prosperity of her manufactures, in a better fituation than any other country in Europe; but even in England population is fometimes too active, as we see clearly by the dangerous increase of poor's rates in country villages; and her manufactures being employed very much for supplying foreign consumption, they are often exposed to bad times; to a flack demand, which turns thousands out of employment, and sends them to their parishes for support. Since the conclusion of the American war, however, nothing of this kind has happened: and the feven years which have elapfed fince that period, may be named as the most decisively prosperous which England ever knew. It has been faid to me in France, would you leave uncultivated lands waste, rather than let them be cultivated in small portions, through a fear of population? - I certainly would not: I would on the contrary, encourage their culture; but I would prohibit the division of small farms, which is as mischievous to cultivation, as it is fure to be distressing to the people. The indiscriminate praise of a great fub-division, which has found its way unhappily into the National Assembly, must have arisen from a want of examination into facts: go to districts where the properties are minutely divided, and you will find (at least I have done it universally) great distress, and even misery, and probably very bad agriculture. Go to others, where such sub-division

^{*} A very ingenious Italian writer states the people of France at 1290 fouls per league; and in Italy at

^{1335.} Fubbroni Reflexions fur l'Agric. p. 243.

† Monf. Necker, in the same section as that quoted above, remarks this to be the case in France; and juftly observes, that the population of such a country being composed of too great a proportion of infants, a million of people implies neither the force nor labour of a million in countries otherwife constituted.

has not taken place, and you will find a better cultivation, and infinitely lefs mifery; and if you would fee a district, with as little distress in it as is consistent with the political fystem of the old government of France, you must assuredly go where there are no little properties at all. You must visit the great sarms in Beauce, Picardy, part of Normandy, and Artois, and there you will find no more population than what is regularly employed and regularly paid; and if in fuch diffricts you should, contrary to this rule, meet with much diffress, it is twenty to one but that it is in a parish which has some commons that tempt the poor to have cattle-to have property-and, in confequence, mifery. When you are engaged in this political tour, finish it by seeing England, and I will shew you a fet of peafants well cloathed, well nourifhed, tolerably drunken from fuperfluity, well lodged, and at their eafe; and yet amongst them, not one in a thousand has either land or cattle. When you have viewed all this, go back to your tribune, and preach, if you please, in favour of a minute division of landed property. There are two other gross errors, in relation to this fubject, that should be mentioned; these are, the encouragements that are fometimes given to marriage, and the idea of the importance of attracting foreigners. Neither of thele is at all admissible on just principles, in such a country as France. The predominant evil of the kingdom, is the having fo great a population, that fhe can neither employ nor feed it: why then encourage marriage? would you breed more people, because you have more already than you know what to do with? You have fo great a competition for food, that your people are starving or in misery; and you would encourage the production of more to encourage that competition. It may almost be questioned, whether the contrary policy ought not to be embraced? whether difficulties should not be laid on the marriage of those who cannot make it appear that they have a prospect of maintaining the children that shall be the fruit of it? But why encourage marriages which are fure to take place in all fituations in which they ought to take place?—There is no instance to be found of plenty of regular employment being first established, where marriages have not followed in a proportionate degree. The policy, therefore, at best is useless, and may be pernicious. Nor is the attraction of soreigners defirable in fuch a kingdom as France. It does not feem reasonable to have a peasantry half starved for want of employment, arising from a too great populousness; and yet, at the fame time, to import foreigners, to increase the competition for employment and bread, which are infufficient for the prefent population of the kingdom. This must be the effect, if the new comers be industrious; if they belong to the higher classes, their emigration from home must be very insignificant, and by no means an object of true policy; they must leave their own country, not in consequence of encouragement given in another, but from fome strokes of ill policy at home. Such instances are indeed out of the common course of events, like the perfecutions of a Duke d'Alva, or the revocation of the edict of Nantes. It is the duty of every country, to open its arms, through mere humanity, to receive fuch fugitives; and the advantages derived from receiving them may be very confiderable, as was the case with England. But this is not the kind of emigrations to which I would allude, but rather to the establishment of such colonies as the King of Spain's, in the Sierre Morena. German beggars were imported, at an immenfe expense, and supplied with every thing necessary to establish little farms in those deferts; whilst at the same time, every town in Spain swarmed with multitudes of idle and poor vagrants, who owed their support to bishops and convents. Suppress gradually this blind and indifcriminate charity, the parent of infinite abuse and misery, and at the fame time give fimilar employments to your own poor; by means of this policy, you will want no foreigners; and you may fettle ten Spanish families for the expence of one German. It is very common to hear of the want of population in Spain, and fome T T 2

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other countries; but such ideas are usually the result of ignorance, since all ill governed countries are commonly too populous. Spain, from the happiness of its climate, is greatly so, notwithstanding the apparent fearcity of inhabitants; for, as it has been shewn above, that country which has more people than it can maintain by industry, who must either starve, or remain a dead weight on the charity of others, is manifestly too populous *; and Spain is perhaps the best peopled country in Europe, in proportion to its industry. When the great evil is having more people than there is wisdom, in the political institutes of a country to govern, the remedy is not by attracting foreigners—it lies much nearer bome.

CONSUMPTION.

ears.	Oxen.	Calves.	· Sheep.	Hogs.	Years.	Oven.	Calves.	Sheep.	Hogs.
767,	68,763	106,579	358,577	17,899	1777,	71,755	104,600	343,300	35.82
		112,949		32,299		73,600	107,262	328,868	
			333,916	36,186	79.	73,468	199,952	324,028	38,21
		110,578		36,712		71,488	104,825	308,043	41,41
71,	65,360	107,598	314,124	30,753		70,484	99,531	317,681	41,70
		101,791		28,610		72,107	100,706	316,563	44,77
		99,749		29,391		71,042	98,478	321,627	39,17
		103,247		30,032		72,984	100,112	327,034	39,62
			309,662	32,722		73,846	91,727	332,628	28,69
76.	71,208	102,291	328,505	37,740	86,	73,088	89.575	128,699	39,57

These are the quantities for which duties are paid; but it is calculated by the officers of the customs, that what enters contraband, and for which nothing is paid, amounts to one-fixth of the whole †.

The confumption of flour is 1500 facks per diem, each weighing 320lb. requiring nine feptiers of corn to yield four of those facks, or 3375 feptiers per diem. This is, per annum, 1,231,875 feptiers; the French political arithmeticians agree in calculating the confumption of their people per head, at three feptiers for the whole kingdom on an average; but this will not lead us to the population of the capital, as the immense confumption of meat in it must evidently reduce confiderably that proportion. It may probably be estimated at two septiers, which will make the population 615,937 souls. Mons. Necker's account of the population was 660,000. The enumeration in 1790 made the numbers no more than 550.800; and there are abundant reasons for believing the affertion, that this capital was diminished by the revolution in that proportion at least. This point is, however, ascertained by the confumption, which is now 1350 facks aday, or reduced one-tenth, which, at two septiers of corn, implies a population of

• An Italian author, with whom I had the pleafure of converting at Turin, juftly observes, "Quanto la popolazione proporzionata ai prodotti della natura e dell' arte è vantaggiosa ad una nazione, altrettanto è nociva una popolazione soverchia." L'Abbate Vasco, Risposta al questio proposto da lia Reale Accad. delle Scienze, &c. 5vo. 1788, p. 75.

†To some it may appear strange, how such a commodity as live oxen, can be sinuggled in great quantities; but the means of doing it are numerous; one was discovered, and many more of the same fort are supposed to exist undiscovered; a subterraneous passage was preced under the wall, going from a court-yard without the wall, to a butcher's yard within; and whole droves of oxen, &c. entered by it in the night for a long time, before it was known. The officers of the barriers are convinced, that on an average of commodities, one-fixth is snuggled.

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554,244; and as this comes within 2000 of the actual enumeration, it proves that two feptiers a head is an accurate estimate; and though it does not perfectly agree with Monf. Necker's account of the former population of Paris, yet it is much nearer to it than the calculations made to correct that account, by Dr. Price, and by the very able and ingenious political arithmetician, Mr. Howlet. As the late enumeration shews the population of Paris to have been (proportionably to the confumption of corn) 615,937 fouls, when its births amounted to 20,550, this fact confirms the general calculation in France, that the births in a great city are to be multiplied by thirty; for the above mentioned number fo multiplied, gives 616,500, which comes fo near the truth, that the difference is not worth correcting. M. Necker's multiplier is confirmed clearly; and the event, which gives to France a population of 26,000,000, has proved, that Dr. Price, who calculated them at above 30,000,000, was as grofly mistaken in his exaggeration of French populousness, as Mr. Howlet has shewn him to be in his diminution of that of England. It feems indeed to have been the fate of that calculator to have been equally refuted upon almost every political question he handled; the mischief of inclofures—the depopulation of England—the populoufness of France—and the denunciation of ruin he pronounced fo authoritatively against a variety of annuitant societies, that have flourished almost in proportion to the distresses he assigned them. The confumption of wine at Paris, on an average of the last twenty years, has been from 230,000 to 260,000 muids per annum; average, 245,000. In 1789 it funk rather more than 50,000 muids, by fmuggling, during the confusions of that period. In 245,000 muids there are 70,560,000 Paris pints, or English quarts, which makes the daily consumption '93,315 quarts; and if to this, according to the computation of the commis of the barriers, one-fixth is to be added for finuggling, it makes 225,534, which is one-third of a quart, and one-tenth of that third per head per diem. The confumption of meat is very difficult to be calculated, because the weight of the beasts is not noted; I can guess at it only, and therefore the reader will pay no other attention to what follows than to a mere conjecture. I viewed many hundreds of the oxen, at different times, and estimate the average at fixty stone; but as there are doubtless many others smaller, let us calculate at 50, or 700 b. and let us drop fmuggling in these cases, since though it may on the whole, be one-fixth yet it cannot be any thing like that in these commodities; the calves at 12clb. the fleep at 6olb. and the hogs at 10clb.

Oxen, Calves,					69,893, at 700lb.		48,918,100 lb. 12,392,520
Sheep, Hogs,					323.762, at 60 36,333, at 100	_	19,425,720 3,633,200
	T	otal	*,			-	84,369,540

This quantity divided amongst a population of 615,937, gives to each person 136lb. of meat for his annual consumption, or above one-third of a pound per diem. During the same twenty years, the consumption of London was on an average, per annum, 92,539 oxen, and 649,369 sheep †. These oxen probably weighed 84clb. each, and the sheep 100lb.; which two articles only, without calves or hogs, make 142,669,660;

+ Report of the Com. of the Court of Common Council, 1786. Folio. p. 75.

[•] Long fince this was written, I received Monf Lavoifier's Refultats d'un ouverage, 1791, in which he gives a table of the Paris confumption; but I do not know on what authority, for the weight per head he makes the total of all meats 82,300,000b.

yet these quantities do not nearly contain the whole number brought to London, which for want of such taxes as at Paris, can be discovered with no certainty. The consumption of Brest is registered for the year 1778, when 22,000 people, in 1900 houses, consumed 82,000 boiseau, each 150lb. of corn of all forts; 16,000 bariques of wine and brandy, and 1000 of cyder and heer. This consumption amounted to per head—corn 2½ septiers, of 240lb. per annum; — wine, brandy, beer, and cyder, one third of a quart per head per diem. Nancy, in 1733, when it contained 19,645 souls, consumed,

Oxen, 2402.—Calves, 9073.—Slicep, 11,863.—Total, 23,338.

It onfumed, therefore, more than one of these pieces per head of its population. In

1738, when it contained 19,831 fouls, it confumed,

Oxen, 2309.—Calves, 5058.—Sheep, 9549.—Total, 16,896; above three-fourths each. The confumption of Paris is three fourths of one of these beasts per head of population. As the finest cattle in the kingdom are sent to the capital, the proportions in number ought to be less; but the wealth of that capital would have justified the supposition of a still greater comparative consumption.

CHAP. XVII .- Of the Police of Corn in France.

OF all subjects, there is none comparable to the police of corn, for displaying the folly to which men can arrive, who do not betray a want of common fenfe in reasoning on other topics. One tells us (I confine myfelf chiefly to French authorities, engaged as I am at prefent in refearches in that kingdom) that the price is in exact proportion to the quantity of corn, and to the quantity of money at the same time in the kingdom t; and that when wheat fells at 36 livres the feptier, it is a proof there is not half enough to last till harvest §. He proposes to have magazines in every market, and to prohibit, under fevere penalties, a higher price than 24 livres. This would be the infallible method to have it very foon at 50, and perhaps 100 livres. That the price of corn does not depend on the quantity of money, is proved by the fudden rife proceeding from alarms, of which this author might have known an inflance in the year he printed; for Monf. Necker's memoir to the National Affembly was no fooner dispersed, than the price role in one week 30 per cent.; yet the quantity in the kingdom, both of money and corn, remained just as before that memoir was published. But it has already been fufficiently proved, that a very fmall deficiency of the crop will make an enormous difference in the price. I may add, that the mere apprehension of a deficiency, whether ill or well founded, will have the fame effect. From this circumstance, I draw a conclusion of no trifling import to all governments; and that is, never to express publicly any apprehension of a want of corn; and the only method by which government can express their fears, is by proclamations against export: prohibitions; ordonances of regulation of fale; arrets, or laws against monopolizers; or vain and frivolous boatls, like those of Monf. Necker, of making great imports from abroad—all these measures have the fame tendency; they confirm amongit the people the apprehension of want; for when it is found amongst the lowest orders, that government is alarmed as well as they themselves, their own sears augment; they rife in a rage against monopolizers, or fpeculators, as they ought rather to be called, and then every step they take has the never-

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^{*} Encyclop. Methodique Marin., t. i. part 1. p. 198.

M. Durival 3 tom. 4to. 1778. t. ii. p. 5.

1789. 8vo. p. 5.

1 Defectip. de la Lorraine, par M. Vaudrey.

1789. 8vo. p. 5.

9 Ib. p. 7, 8, 19.

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failing effect of increasing the evil; the price rifes still higher, as it must do inevitably, when fuch furious obfiructions are thrown on the interior trade in corn, as to make it a matter of great and ferious danger to have any thing to do with it. In fuch a fituation of madness and folly in the people, the plenty of one district cannot supply the want of another, without fuch a monftrous premium, as shall not only pay the expence of trans-picions of the people. To raife this fpirit, nothing more is necessary than for government to iffue any decree whatever, that discovers an alarm; the people immediately are apprehensive of famine; and this apprehension can never take place without creating the reality in a great measure. It is therefore the duty of a wife and enlightened government, if at any time they should fear a short provision of corn, to take the most private and cautious measures possible, either to prevent export, by buying up the corn that is collected for exportation, and keeping it within the kingdom, a measure easy to be done through individuals, or to encourage import, and to avoid making any public decree or declaration. The hittory of corn, in France, during the year 1789, was a most extraordinary proof of the justiness of these principles. Wherever I passed, and it was through many provinces, I made inquiries into the causes of the scarcity; and was every where affured, that the dearness was the most extraordinary circumstance in the world: for, though the crop had not been great, yet it was about an average one; and confequently that the deficiency must certainly have been occasioned by exportation. I demanded, if they were fure that an exportation had taken place?—They replied, no; but that it might have been done privately: this answer sufficiently shewed, that these exports were purely ideal. The dearness, however, prevailed to such a degree, in May and June particularly, (not without being fornented by men who fought to blow the difcontents of the people into absolute outrage,) that Mons. Necker thought it right not only to order immense cargoes of wheat, and every other fort of corn, to be bought up all over Europe, but likewife in June, to announce to the public, with great parade, the steps that he had taken, in a paper called Memoire instructif, in which he stated, that he had bought, and ordered to be bought, 1,404,463 quintaux of different forts of grain, of which more than 800,000 were arrived. I was a personal witness, in many markets, of the effect of this publication; inftead of finking the price, it raifed it directly, and enormoufly. Upon one market day, at Nangis, from 38 livres to 43 livres the feptier of 240lb.; and upon the following one to 49 livres, which was July 1st; and on the next day, at Columiers, it was taxed by the police at 4 livres of, and 4 livres of, the 23lb.; but as the farmers would not bring it to market at that price, they fold it at their farms at 5½ livres, and even 6 livres, or 57 livres the feptier. At Nangis it advanced, in fourteen days, 11 livres a septier; and at Columiers a great deal more. Now, it is to be observed, that these markets are in the vicinity of the capital, for which Mons. Necker's great foreign provision was chiefly defigned; and confequently if his measures would have had any where a good effect, it might have been expected here; but fince the contrary happened, and the price, in two markets, was raifed 25 per cent. we may reasonably conclude, that it did good no where; but to what was this apparent scarcity Absolutely to Mons. Necker's having said in his memoir, à mon arivée dans la ministère je me bâtai de prendre des informations sur le produit de la récolte & sur les besoins des pays étrangers *. It was from these unseasonable inquiries in September

^{*} He has introduced a tiffue of the same stuff in his Memoir fur L' Administration de M. Necker, par lui même, p. 367, where he says, with the true ignorance of the prohibitory system, "Mon system for Pexportation des grains est infiniment simple, ainsi que j'ai eu souvent l'occasion de le developper; il se borne à

1788, that all the mischief was derived. They pervaded the whole kingdom, and spread an universal alarm; the price in consequence arose; and when once it rises in France, mischief immediately follows, because the populace, by their violence, render the internal trade insecure and dangerous. The business of the minister was done in a moment; his consummate vanity, which, from having been consued to his character as an author, now became the scourge of the kingdom, prohibited the export for no other reason, than because the Archbishop of Sens had the year before allowed it, in contradiction to that mass of errors and prejudices which M. Necker's book upon the corn trade had disseminated. It is curious to see him, in his Memoir restructif, afferting, that France, in 1787, etoit livrée au commerce des grains dans tout le royaume, avec plus d'assivité, que jamais & l'on avoit envoye dans l'etranger une quantité considerable de grains. Now, to see the invidious manner in which this is put, let us turn to the register of the Bureau General de la balance du Commerce, where we shall find the following statement of the corn-trade for 1787:

		Import		1		Expor	
Wheat, Rice, - Barley, Legumes,	:	:	8,116,000 liv. 2,040,000 375,000 945,000	Corn, Wheat, Legumes,	•	:	3,165.600 liv. 6,539,900 949,200

n'en avoir aucun d'immushle, mais à defendre ou permettre cette exportation felon le temps & felon les circonstances." When a man starts upon a rotten foundation, he is fure to flounder in this manner; the simplicity of a system to be new-moulded every moment, 1 selon le temps & selon les circonstances !" And who is to judge of these scafous and circumitances? A minister? A government? These, i. seems, are to promulgate laws, in confequence of their having made inquiries into the fla c of crops and floc's on hand. What prefumption; what an excels of vanity must it be, which impels a man to suppose, that the truth is within the verge of fuch inquiries; or, that he is one line, or one point nearer to it, after he has made them before he began. Go to the Intendant in France, or to the Lord Lieutenant in England, and Imppose him to receive a letter from government directing luch inquiries: pursue the intelligence, - fullow him to his table for converfation on crops, - or in his ride among the farmers (an idea that may obtain in England, but never was such a ride taken by an Intendant in France) in order to make inquiries; mark the defultory, broken, and talfe specimens of the intelligence he receives, -- and then recur to the simplicity of the system that is to be founded on such inquiries. Monf. Necker writes as if we were ignorant of the fources of his information. He ought to have known that ministers can never produce it; and that they cannot be fo good an authority for a whole kingdom, as a country gentleman, ikilled in agriculture, is for his own pariff; yet what gentleman would prefume to pronounce upon a crop to the 365th part of its amount, or even to the 20th? But it must be observed, that all Mont. Necker's simple operations, which canfed an unlimited import, at an unlimited expense, affected not one twentieth part of a year's confumption by the people, whose welfare he took upon him to superistend. If this plain sach the undoubted ignorance of every man what the crop is, or has been, in fuch fractions as \$\frac{1}{10}\$, \$\frac{1}{10}\$, and much more \$\frac{1}{20}\$, be well confidered, it will furely follow, that an absolute and unbounded liberty in the countrade is infinitely more likely to have effect, than fuch pality, decentral, and falle inquiries as this minister, with his fyften of complex fimplicity, was forced, according to his own account, o tely upon. Let the reader purfue the passage, p 369, the prevoyance of government -application - latter le monvement du commerceattrait prochain calculi. A pretty support for a great varion! Their fat filence is to depend on the combination of a visionary declaimer rather than on the industry and energy of Their own exertions. Monf. Necker's performance deferves an attentive period, especially when he paints pathetically the anxieties he fullered on account of the want of corn. It wished that those who read it would only carry in their minds this undoubted fact, that the tearcity which or rationed thinfr inquictures was abfoliately and folely of his own creating; and that if he had not been mighter in I rance, and that government had taken no flep whatever in this affair, there would no have been fuch a word as feareity heard in the kingdom. He converted, by his management, an ordinarily front error into a feareity; and he made that feareity a famine; to remedy which, he affirmes so much merit, as to multate a common reader. This

This account shows pretty clearly how well founded the minister was, when he attempted to throw on the wife measure of his predecessor the mischiefs which arose from his own pernicious prejudices alone; and how the liberty of commerce, which had taken place most advantageously in consequence of the free trade in 1787, had been more an import trade than an export one; and of course, it shews, that when he advifed his fovereign to prohibit that trade, he acted directly contrary even to his own principles; and he did this at the hazard of raifing a general alarm in the kingdom, which is always of worse consequence than any possible export. His whole conduct, therefore, was one continued feries of fuch errors, as can, in a fentible man, be attributed only to the predominant vanity that infligated him to hazard the welfare of a great nation to defend a treatife of his own composition. But as this minister thought proper to change the fystem of a natural export and import; and to spread, by his measures, an alarm amongst the people, that seemed to confirm their own apprehenfions, let us next examine what he did to cure the evils he had thus created. He imported, at the enormous expence of 45,543,697 livres (about 2,000,000 fterling) the quantity of 1,404,465 quintaux of corn of all forts, which, at 240lb. make 583,192 feptiers, sufficient to feed no more than 195,064 people a year. At three septiers per head, for the population of 26 millions of mouths, this supply, thus egregiously boasted of, would not, by 55,908 septiers, feed France even for three days; for her daily confumption is 213,700 feptiers, nor have I the least doubt of more persons dying of famine, in confequence of his measures, than all the corn he procured would feed for a year*. So absolutely contemptible is all importation as a remedy for famine! and so utterly ridiculous is the idea of preventing your own people from being flarved, by all owing an import which, in its greatest and most forced quantities, bears so trisling a proportion to the confumption of a whole people, even when bribed, rather than bought from every country in Europe! But a conclusion of much greater importance is to be deduced from these curious facts, in the most explicit confirmation of the preceding principles, that all great variations in the price of corn are engendered by apprehension, and do not depend on the quantity in the markets. The report of Monf. Necker's measures we have found, did not fink, but raifed the price: providing France with less than three days bread, when blazed forth with all the apparatus of government, actually raifed the price in the markets, where I was a witness, 25 per cent. Of what possible confequence was three days provision added to the national stock, when compared with the mifery and famine implied—and which actually took place in confequence of pushing the price up to enormoully, by Monf. Necker's measures? Would it not have been infinitely wifer never to have stopped the trade, which I have proved to have been a trade of import?-Never to have expressed any solicitude?-Never to have taken any public steps, but to have let the demand and supply quietly meet, without noise and without parade? The confequence would have been, faving forty-five millions of the public money, and the lives of fome hundred thoulands, starved by the high price that was created, even without a scarcity; for I am firmly persuaded, that if no public step whatever had been taken, and the archbishop of Sens' edict never repealed, the price of wheat in no part of France would have seen, in 1789, so high a rate as 30 livres, instead of rising to 50 and 57 livres. If there is any truth in these principles, what are we to think of the first minister hunting after a little popularity, and boasting

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At a moment when there was a great flagnation in every fort of employment, a high price of bread, infeed of a moderate one, must have destroyed many; there was no doubt of g eat numbers dying for want in every part of the kingdom. The people were reduced in some places to ear bran and boiled grass. Journal de l'Alp Nat. tom. i.

in his Memaire, that the King allowed only bread of wheat and rye mixed to be ferved at his own table? What were the conclusions to be looked for in the people, but that if fuch were the extremities to which France was reduced, all were in danger of death for want of bread. The confequence is palpable; a blind rage against monopolizers, hanging bakers, feizing barges, and fetting fire to magazines; and the inevitable effeet of a fudden and enormous rife in the price, wherever fuch measures are precipitated by the populace, who never are truly active but in their own defiruction. It was the fame spirit that dictated the following passage, in that Memoire instructif, " Les accaparemens font la premiere cause à laquelle la multitude attribue la cherte des grains, & en effet en souvent cu lieu de se plaindre de la cupidité des speculateurs ." I cannot read thefe lines, which are as untrue in fact as erroneous in argument, without indignation. The multitude never have to complain of fpeculators; they are always greatly indebted to them. There is no fuch thing as monopolizing corn but to the benefit of the people t. And all the evils of the year 1789 would have been prevented, if monopolizers, by raifing the price in the preceding autumn, and by leftening the confumption,

• This is pretty much like his fending a memoir to the National Affembly, which was read October 24, in which the minister frys Il eft done urgent de défendre de plus en plus l'expertation on France ; mair il eft d'efficile de veiller à cette probabiton. On a fait placer des condons de troupes fur les frontiers à cette effett. Juurmal des Etats Generaux, tonn v. p. 194. Invery expression of this nature becoming public, tended to in-fisme the people, and consequently to raise the price.

1 I am much inclined to believe, that no fort of monopoly ever was, or ever can be injurious without the affidance of government; and that government never tends in the leaft to favour a monopoly without doing infinite mischief. We have heard in England of attempts to monopolize hemp, allum, cotton, and many other articles: ill concrived speculations, that always ended in the ruin of the schemers, and eventually this good, as I could thew, if this were the proper place. But to monopolize any article of common and darly tupply and confumption to a mischievous degree, is absolutely impossible: to buy large quantities, at the cheapeft feafon of the years in order to hoard and bring them out at the very dearest moment, is the idea of a monopolizer or accapercur: this is, of all other transactions, the most beneficial towards an equal fupply. The wheat which fuch a man buys is cheap, or he would not buy it with a view to profit; What does he do then? He takes from the market a portion, when the supply is large; and he brings that portion to the market when the supply is finall; and for doing this you hang him as an enemy. Why? Bccanfe he has made a private profit, perhaps a very great one, by coming in between the farmer and the contumer. What should induce him to carry on his baliness, except the defire of profit? But the benefit of the peopleis exactly in proportion to the greatness of that profit, fince it arises directly from the low price of corn at one leafon, and the dearness of it at another. Moil clearly any trade which tends to level this inequality is advantageous in proportion asia effects it. By buying great quantities when cheap, the price is raifed, and the confumption forced to be more sparing: this circumstance can alone save the people from famine; if, when the cropis seanty, the people confume plentifully in autumn, they must inevitably starve in summer; and they certainly will contume plentifully if corn is cheap. Government cannot step in and fay, you shall now cat half a pound of bread only, that you may not by and by be put to half an ounce. Government cannot do this without erecting granaries, which we know, by the experience of all Europe, is a most pernicious fystem, and done at an expense which, if laid out in premiums, encouraging cultivation, would convert deferts into fruitful corn-fields. But private monopolizers can and do effect it; for by their purchases in cheap months they raife the price, and exactly in that proportion leffen the confumption; this is the great object, for nothing elfe can make a thort crop hold out through the year; when once this is effected, the people are fafe, they may pay very dear atterwards, but the corn will be forth-coming, and they will have it though at an high price. But reverfe the modal, and suppose no monopolizers; in such a case, the cheapnels in autumn continuing, the free confirmption would continue with it; and an undue portion being eaten in winter, the fumner would come without its supply: this was manifellly the hillory of 1780; the people entaged at the idea of monopolizers, not at their real exiltence, (for the nation was flarving for want of them, I hong the miferable dealers, on the idea of their having done what they were utterly unable to do. Thus, with toch a fyficm of small farms as empty the whole crop into the markets in autumu, and make no referve for fum per, there is no possible remedy, but many and great monopolizers, who are beneficial to the public exactly in proportion to their profits. But in a country like England divided into large farms, fach corn dealers are not equally wanted; the farmers are rich enough to wait for their returns, and keep a due referve in flacks to be threshed in summer; the belt of all methods of keeping corn and the only one in which it receives no damage.

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had divided the fupply more equally through the year. In a country like France, fubdivided mischievously into little farms, the quantity of corn in the markets in autumn is always beyond the proportion referred for supplying the rest of the year; of this evil, the best remedy is, enlarging the fize of farms; but when this does not take place, the dealings of monopolizers are the only refource. They tay when corn is cheap, in order to hoard it till it is dear; this is their speculation, and it is precisely the conduct that keeps the people from flarving; all imaginable encouragement flould be given to fuch merchants, whose business answers every purpose of public granaries, without any of the evils that are fure to flow from them *. It may eafily be conceived, that in a country where the people live almost entirely on bread, and the blind proceedings of mobs are encouraged by arrets of parliaments, feconded by fuch blunders of government as I have described, and unaided by the beneficial existence of real monopolizers; it may eafily be conceived. I fay, that the fupply must be irregular, and in many instances infusicient; it must be insufficient, exactly in proportion to the violence of the populace; and a very high price will be the unavoidable confequence, whatever may be the quantity in the kingdom. In June and July 1789, the markets were not opened before troops arrived to protect the farmers from having their corn feized; and the magistrates, to avoid infurrections among the people, set the affize too low upon corn, bread, and butcher's meat; that is, they fixed the prices at which they were to be fold, which is a most pernicious regulation. The farmers, in confequence, refrained from going to market, in order to fell their wheat at home at the best price they could get, which was of course much higher than the affize of the markets. How well these principles, which fuch ample experience proves to be jull, are understood in France, may be collected from the cabiers, many of whom demand measures which, if really purfued, would fpread absolute famine through every province in the kingdom. It is demanded at one place, "that as France is exposed to the rigours of famine, every farmer should be obliged to register his crop of every kind, gerbs, bottes, muids, &c.; and also every month the quantity fold †." Another requires, " that export be feverely prohibited, as well as the circulation from province to province; and that importation be always allowed 1." A third \$, " that the feverest laws be passed against monopolizers; a circumstance which at present desolates the kingdom." A system of prohibition of export is demanded by no less than twelve cabiers ||. And fifteen demand the erection of public magazines ¶. Of all folecifins, none ever equalled Paris demanding that the transport of corn from province to province should be prohibited. Such a request is

[•] Well has it been observed by a modern writer, Lorsque les récoltes manquent en quelque lieu d'un grand empire, les travaux du reste de ses provinces étant pages d'une beureuse fécundité sussifient à la conjumnation de la totalité Sans sollicitude de la part d'u gouvernement, sans magazins publics, sar le seul effet d'une communication libre & facile en n'y connoit ni distet ni grande chette. Theorie de Luxe, tom. i. p. 5.

† Tier Etat de Mendon. p. 30. † Tier Etat de Paris, p. 43. § Tier Etat de Reims, art. 110.

[†] Tier Etat de Mendon. p. 36. † Tier Etat de Pariz, p. 43. § Tier Etat de Reims, art. 110.

Nob. de Quefnoy, p. 24. Nob. de St. Quintin, p. 9. Nob. de Lide, p. 20. T. Etat de Reims, p. 20.

T. Etat de Roven, p. 43. T. Etat de Dunkerque, p. 15. T. Etat de Meti, p. 46. Clergé de Roven, p. 24.

T. Etat de Rennes, p. 65. T. Etat de Valenciennes, p. 12. T. Etat de Troyes, art. 96. T. Etat de Dourdon, art. 2

^{¶ 1} have lately feen (January, 1792) in public print, the mention of a proposal of one of the ministers to erect public magazines; there wants nothing else to complete the fyshem of abstructive in relation to corn which has infested that fine kingdom. Magazines can do nothing more than private accapereurs; they can only buy when corn is cheap, and fell when it is dear; but they do this at such a vait expense, and with so little economy, that if they do not take an equal advantage and prosit with private speculators, they must demand an enormous tax to enable them to carry on their business; and if they do take such prosit, the people are never the better for them. Mr. Symonds, in his paper on the public magazines of Italy, has proved them to be every where nuisances. See Annals of Agriculture, vol. xiii p. 299. &c.

really edyfying, by offering to the attention of the philosophical observer, mankind under a new feature, worthy of the knowledge and intelligence that ought to reign in the capital of a great empire; and Monfieur Necker was exactly fuited to be minister in the corn department of such a city!—The conclusions to be drawn from the whole business, are evident enough. There is but one policy which can secure a supply with entire fafety to a kingdom fo populous and fo ill * cultivated as France, with fo large a portion of its territory under wood and vines; the policy I mean is an entire and abfolute liberty of export and import at all times, and at all prices, to be perfifted in with the fame unremitted firmness, that has not only rescued Tuscany from the jaws of periodical famines, but has given her eighteen years of plenty, without the intervention of a moment's want. A great and important experiment! and if it has answered in fuch a mountainous, and, in comparison with France, a barren territory, though full of people, affuredly it would fulfil every hope, in fo noble and fertile a kingdom as France. But to fecure a regular and certain supply, it is necessary that the farmer be equally fecure of a fleady and good price. The average price in France vibrates between 18 and 22 livres a feptier of 240lbt. I made enquiries through many provinces in 1789, into the common price, as well as that of the moment, and found (reducing their measures to the septier of 240lb.) that the mean price in Champagne is 18 livres; in Loraine 171; in Alface 22 livres; in Franche Comté 20 livres: in Bourgogne 18 livres; at Avignon, &c. 24 livres; at Paris, I believe, it may be calculated at 19 livres. -Perhaps the price, through the whole kingdom, would be found to be about 20 livres. Now, without entering into any analysis of the subject, or forming any comparison with other countries, France ought to know, at least she has dearly learned from experience, that this is not a price sufficient to give such encouragement to the farmers as to fecure her a certainty of fupply: no nation can have enough without a furplus; and no furplus will ever be raifed, where there is not a free corn trade.—The object, therefore, of an absolutely free export, is to secure the home supply. The mere profit of felling corn is no object; it is less than none; for the right use thereof is to feed your own people. But they cannot be fed, if the farmers have not encouragement to improve their agriculture; and this encouragement must be the certainty of a good

† Price of Wheat at Paris, or at Roloy, for 146 years.

Price of 73 Years, the re-	gn of Lou	s XIV.	Priceof 73 Years, the Re	igns of Lou	is XV. and XVI.
		Lav. Sol. Den.			Liv. Sol. Den.
From 1643 to 1652		35 14 1	From 1716 to 1725		17 10 9
16,3 to 1662		32 12 2	17:0 to 1:35		16 9 4
1663 to 1672		23 6 11	1736 to 1745	-	18 15 7.
1673 to 1682		2; 13 8	1745 to 1755		18 101 1
1683 to 1692	-	22 0 4	1756 10 1765	_	17 9 1
1693 to 1702	_	31 16 1	176 to 1775	_	28 7 9
1703 to 1712	_	23 17 1	1776 to 1785		22 4 7
1713 to 1715	-	33 i 6	1786		20 12 6
			17.7	_	22 2 6
General Average		28 1 5	1788		24 0 0
De la Balance du Commerce	tom .		C1		-
De la Dalance de Commerce	, tom. 3.		General average	e	20 1 4
					price.

The affertion of the Marquis de Caffaux, "that the free corn trade established by Mons. Turgot, increased the productions of the agriculture of France as 150 to 100," (Seconde Suite de Confid. fur les Mech. d. Soc. p. 119.) must be received with great caution. That of Mons Millot, "that the lands of the same kingdom produced five times as much in Henry IV's reign as they do at present," is a very gross error, irreconcileable with the least probability. Etem. de PHist. Gen. t. ii. p. 488.

price. Experience has proved fufficiently, that 20 livres will not do. An absolute freedom of interior circulation is so obviously necessary, that to name it is sufficient.

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A great and decided encouragement to monopolizers † is as necessary to the regular fupply, as that feed should be fown to procure a crop; but reaping, in order to load the markets in winter, and to starve the people in summer, can be remedied by no other person but an accapareur. While such men are therefore objects of public hatred; while even laws are in force against them, (the most preposterous that can disgrace a people, fince they are made by the mouth, against the hand for lifting food to it,) no regular supply can be looked for. -We may expect to see famine periodical, in a kingdom governed by the principles which must take place, where the populace rule not by enlightened representations, but by the violence of their ignorant and unmanageable wills. Paris governs the National Affembly; and the mass of the people, in great cities, are all alike absolutely ignorant how they are sed; and whether the bread they eat be gathered like acorns from a tree, or rained from the clouds, they are well convinced, that God Almighty fends the bread, and that they have the best possible right to eat it. The courts of London, aldermen and common councilmen, have, in every period, reasoned just like the populace of Paris 1. The present system of France, relative to agriculture, is curious:

To encourage investments in land, I. Tax it Three Hundred Millions.

The internal flackles on the corn trade of France, are such as will greatly impede the establishment of that perfect freedom which alone forms the proper regulation for such a country. M. Turgot, in his Lettres sur les Grains, p. 126, notices a most absurd duty at Bourneaux, of 20f. per septier on all wheat consumed there, or even deposi ed for foreign commerce, a duty which ought to have prevented the remark of the author of Credit National, p. 222, who mentions, as an extraordinary fact, "that at Toulouse there is a duty of 12f per septier on grinding, yet bread is chearer there than at Bourdeaux." Surely it would be so; it ought to be 8f. the septier cheaper.

† The word speculator, in various passages of this chapter, would be as proper as monopolizer, they mean the same thing as accapareur; a man who huys corn with a view to felling it at a higher price; what-

ever term is used, the thing meant is every where understood. 1 Aldermen, common conneilmen, and mobs, are conflitent when they talk nonfenfe; but philosophers are not so easily to be pardoned; when M. l'Abbé Rozier declares, que la France recolté année ordinaire près du double plus de bleil qu'elle n'en confomme, (Recueil de Mémoires fur la Culture & le Rouissige du Chauvre, 8vo. 1787. p. 5. he wrote what has a direct tendency to inflame the people; for the conclusion they must draw is, that an immense and incredible export is always going on. If France produces in a common year double her confumption, what becomes of the furplus? Where are the other 25 millions of people that are fed with French corn? Where do the 78 000,000 of feptiers go that France has to spare; a quantity that would load all the ships possessed by that kingdom above thirty times to carry it. Initead of the common crop equalling two years confirmation, it certainly does not equal thirteen months common confumption; that is fuch a confumption as takes place at an average price. And all the difference of crops is, that confumption is moderate with a bad product, and plentited with a good one. The failure of a crop in one province in a very finall degree, which, under a good government, and entire liberty of trade, would not even be felt, will, under a fyllem of restrictions and prohibitions, raise the price through the whole kingdom enormously; and if measures are taken to correct it by government, they will convert the high price into a famine. The author of Traite d'Economie Politique. 8vo. 1783, p. 59/, does not talk quite fo greatly, when he fays a good crop will feed France a year and a half; but pretty near it. The abfordities that daily appear on this ful ject are altonifing. In a work now publishing, it is faid, that a moderate crop survishes England for three years, and a good one for five. Encyc opadie Methodique Ecomomie tol. pt. i tom. i. p. 75. This affection is copied from an Italian, viz Zanoni dell' Agricoltura, 1763,
8vo. tom i. p. 10, who took it verbatim from the five for divers Sujets interressant dell' Politique et de Morale,
8vo. 76 p. 216 It is thus that such nonsense becomes propagated, when authors are content to copy one another, without knowledge or confideration. To To enable the land to pay it,
II. Prohibit the Export of Corn.
That cultivation may be rich and spirited,
III. Encourage small Farms.
That cattle may be plentiful,

I hat cattle may be plentiful, IV. Forbid the Inclosure of Commons.

And that the supply of the markets may be equal in summer as in winter.

V. Hang all Monopolizers.

Such may be called the agricultural code of the new government of France!

CHAP. IV. Of the Commerce of France.

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AGRICUITURE, manufactures, and commerce, uniting to form what may be properly termed the mass of national industry, are so intimately connected in point of interest, under the dispensations of a wise political system, that it is impossible to treat amply of one of them, without perpetually recurring to the others. I feel, in the progress of my undertaking, the impossibility of giving the reader a clear idea of all the interests of French agriculture, without inferting, at the same time, some details of manufactures and commerce. The opportunities I possessed of gaining some valuable intelligence, enable me to insert several accounts hitherto unpublished, which I believe my commercial readers (should I have any such) will not be displeased to examine.

Imports into France in 1784.

					liv, (liv.
Wood,	•		-		216,200	Flax-feed,			-	612,600
Timber,	-		-		1,866,800	Hops,			•	272,400
Hoops, &c.		-		•		Tallow loaves,			-	1,133,400
Staves,	-		-		628,500	Refuse of filk,			-	94,900
Planks,	-		-		2,412,000	Hemp,	•		-	4,385,300
Pitch and tar,		-		•		Hemp and flat			-	2,091,100
Ashes,	•		•			Thread of resi			-	55,800
Soda and pot-ash	,		-		3,873,900	Various wools	,	-	-	25,925,000
Kelp,		-		•		Spun ditto,	-		-	119,400
Peat ashes for ma	nurc	!	-			Vigonia ditto	,	-	-	259, 00
Grain,	•		-		141,500	Flax,	-	-		1,109,500
Millet and Canar	y,	-		•	51,400	Silk raw,	-		-	29,582,700

Manufactured Goods.

			PM		
Mercery, thread, and bonet	etie,	335,500	Table linen, -	-	99,200
Woollen stuffs, -	-	81,300	Linen called platite,	-	. 602,100
Ditto filk, -	-	430,700	treilis, -		892,700
Bours d'æft,	•	252,200	- coutis hemp,	-	432,000
Silk gauzes, -	-	54,700	Sail Cloth, -	-	157,700
Silk handkerchiefs.		115,900	Candles, -	-	50,300
Silk ribbons,	•	374.400	Yellow waz, -	-	1,317,900
Ribbons of wool,			Cordage, -	-	99,000
Thread ribbons,	•	1,406,100	Horfe-hair, -		50,000
Ribbons of thread and wool		92,700	Raw hides, -	-	2,80;,400
Linen, flax and hemp, mia-	ed,	1,018,600	Distilled waters and oils,		875,500
Linen of flax,		4,849,700	Effences, -	•	126,500
					Drelles,

	liv.	1	liv.
Dreffes,	93,200	- calves	115,200
Oil of grain,	248,300	hares and rabbits,	78,600
Corke,	219,300	Quills,	143,900
in plank,	97,100	Bed feathers,	81,700
Skine, -		Hog and wild boar hair,	148,400
goats and kids,	148,400	Coaches,	783,900
	Edi	bles.	
Almonds,		Various wines,	60
Butter, -		Defert wines.	684,900
Salt beef,	1,716,400		362,200
Salt pork,	181,600		
Cheefe, -		Cattle of all forts,	31,800
Fruits,	238,100		
Lemons and oranges, &c. (in No.	- 3 - 7	Sheep,	1,355,200
17, 43,000), -	731,000		1,087,000 276,100
Sweetmeats,		Cows and bulls,	1,264,800
Dried fruits and figs, -	254,600		89,300
Dried grapes,		Horses,	2,052,900
Wheat,	5,347,900		148,400
Rye,	139,800		240,400
Barley,	162,800	Drugs.	
Oil of Olives,	25,615,700	Liquorice juice,	67,300
Legumes,	55 ,900	Gaul nuts, -	313,000
Vermicelli,	207,200	Madder,	476,600
^ \·,		Roots of Allifary, -	226,300
" errous edibles	00.800	Saffranam,	578,700
(80)	383,500	Shumac,	72,200
Lieus,	383,500	Shumac,	73,200
arrandy of wine, -	383,500	Shumac,	73,200
randy of wine, -	383,500	Shumac, Turnfole, Tobacco leaf,	73,200
Lrandy of wine, corn, -	383,500 1,151,900 2,086,900	Shumac, Turnfole, Tobacco leaf,	73,200
Lrandy of wine, corn, -	383,500 3,151,900 2,086,900 62,900	Shumac, Turnfole, Tobacco leaf, fame Year	73,200 87,600 5,993,100
Lrandy of wine,	383,500 3,151,900 2,086,900 62,900 Exports the	Shumac, Turnfole, Tobacco leaf, fame Year. [Laces of thread and filk,	73,200 87,600 5,993,100
Various woods,	383,500 3,151,900 2,086,900 62,900 Exports the	Shumac, Turnfole, Tobacco leaf, fame Year. [Laces of thread and filk,	73,200 87,600 5,993,100 445,300 15,530,900
Various woods, Plank, Pitch and tar,	383,500 1,151,900 1,086,900 62,900 Exports the 89,600 66,300 255,700	Shumac, Turnfole, Tobacco leaf, fame Year. Laces of thread and filk, Woollen cloth, Various fluffs,	73,200 87,600 5,993,100 445,300 15,530,900 122,300
Various woods, Plank, Pitch and tar, Common aftes,	383,500 3,151,900 2,086,900 62,900 Exports the 89,600 66,300 255,700 152,000	Shumac, Turnfole, Tobacco leaf, fame Year Laces of thread and filk, Woollen cloth, Various fluffs, Woollen fluffs, Woollen fluffs, Stuffs of thread and word	73,200 87,600 5,993,100 445,300 15,530,900 122,300 7,491,300
Various woods, Plank, Pitch and tar,	383,500 3,151,900 2,086,900 62,900 Exports the 89,600 66,300 255,700 152,000	Shumac, Turnfole, Tobacco leaf, fame Year Laces of thread and filk, Woollen cloth, Various fluffs, Woollen fluffs, Woollen fluffs, Stuffs of thread and word	73,200 87,600 5,993,100 445,300 15,530,900 122,300 7,491,300
Various woods, Plank, Pitch and tar, Common affes, Charcoal,	383,500 3,151,900 2,086,900 62,900 Exports the 89,600 66,300 255,700 152,000	Shumac, Turnfole, Tobacco leaf, fame Year Laces of thread and filk, Woollen cloth, Various fluffs, Woollen fluffs, Woollen fluffs, Stuffs of thread and word	73,200 87,600 5,993,100 445,300 15,530,900 122,300 7,491,300 109,300 3,055,700
Various woods, Plank, Pitch and tar, Common aftes, Clarcoal, Coals,	383,500 3,151,900 2,086,900 62,900 Exports the 89,600 66,300 255,700 152,000	Shumac, Turnfole, Tobacco leaf, fame Year Laces of thread and filk, Woollen cloth, Various fluffs, Woollen fluffs, Woollen fluffs, Stuffs of thread and word	73,200 87,600 5,993,100 445,300 15,530,900 122,300 7,491,300 109,300 635,700
Various woods, Plank, Pitch and tar, Common aftes, Charcoal, Coals, Grains,	383,500 3,151,900 2,086,900 62,900 Exports the 89,600 66,300 255,700 152,000	Shumac, Turnfole, Tobacco leaf, fame Year Laces of thread and filk, Woollen cloth, Various fluffs, Woollen fluffs, Woollen fluffs, Stuffs of thread and word	73,200 87,600 5,993,100 15,530,900 122,300 7,491,300 109,300 633,600 1,538,500
Various woods, Plank, Pitch and tar, Common aftes, Clarcoal, Coals, Grains, Colefeet, Garden-feeds,	383,500 3,151,900 2,086,900 62,900 Exports the 89,600 66,300 255,700 152,000 70,600 419,000 144,900 75,700	Shumac, Turnfole, Tobacco leaf, Laces of thread and filk, Woollen cloth, Various stuffs, Woollen stuffs, Woollen stuffs, Thread and woot, hair, hair and woot, Silk stuffs,	73,200 87,600 5,993,100 15,530,900 122,300 7,491,300 19,300 3,655,700 633,600 1,538,500 14,834,100
Various woods, Plank, Pitch and tar, Common aftes, Charcoal, Coals, Grains, Colefeet, Garden-feeds, Flax-feed,	383,500 1,151,900 1,086,900 62,900 Exports the 89,600 60,300 255,700 152,000 10,000 144,900 144,900 253,700 248,900	Shumac, Turnfole, Tobacco leaf, Laces of thread and filk, Woollen cloth, Various fluffs, Woollen fluffs, Stuffs of thread and wool, — hair, — hair and wool, — rich in gold, Silk fluffs, Stuffs mixed with filk,	73,200 87,600 5,993,100 15,530,900 122,300 7,491,300 3,655,700 633,600 14,834,100 649,600
Various woods, Plank, Pitch and tar, Common aftes, Charcoal, Coals, Graims, Colefced, Garden-feeds, Flax-feed, Bours of filk,	383,500 1,151,900 1,086,900 62,900 Exports the 89,600 66,300 70,600 419,000 148,900 144,900 248,900 94,700	Shumac, Turnfole, Tobacco leaf, Jame Year Laces of thread and filk, Woollen cloth, Various fluffs, Stuffs of thread and wood, — hair, — hair and wool, — rich in gold, Silk fluffs, Stuffs mixed with filk, Silk gauzes,	73,200 87,600 5,993,100 445,300 15,530,900 109,300 3,655,700 635,600 1,538,500 14,834,100 649,600
Various woods, Plank, Pitch and tar, Common aftes, Charcoal, Coals, Grains, Colefect, Garden-feeds, Flax-feed,	383,500 1,151,900 1,086,900 62,900 Exports the 89,600 60,300 255,700 152,000 70,600 419,000 144,900 75,700 248,900 94,700 47,100	Shumac, Turnfole, Tobacco leaf, fame Year Laces of thread and filk, Woollen cloth, Various fluffs, Woollen fluffs, Stuffs of thread and wood, — hair, — hair and wool, — rich in gold, Silk fluffs, Stuffs mixed with filk, Silk gauzes, Thread and filk gauzes,	73,200 87,600 5,993,100 445,300 15,530,900 122,300 7,491,300 3,655,700 633,600 1,538,500 14,834,100 649,600 5,452,000
Various woods, Plank, Pitch and tar, Common aftes, Charcoal, Coals, Grains, Colefect, Garden-feeds, Flax-feed, Bours of filk, Hemp, Thread of flax and hemp,	383,500 1,151,900 1,086,900 62,900 89,600 66,300 255,700 152,000 70,600 419,000 144,900 144,900 248,900 94,700 47,100 143,400	Shumac, Turnfole, Tobacco leaf, Laces of thread and filk, Woollen cloth, Various fluffs, Woollen fluffs, Stuffs of thread and wood, — hair, — hair and wood, — rich in gold, Silk fluffs, Stuffs mixed with filk, Silk gauzes, Thread and filk gauzes, Thread and cotton handkerchiefs.	73,200 87,600 5,993,100 15,530,900 122,300 7,491,300 3,655,700 633,600 14,834,100 649,600 5,452,000 209,000
Various woods, Plank, Plank, Pitch and tar, Common aftes, Charcoal, Coals, Grains, Colefeed, Garden-feeds, Flax-feed, Bours of filk, Hemp, Thread of flax and hemp, Wool,	383,500 1,151,900 1,086,900 62,900 89,600 66,300 255,700 152,000 70,600 419,000 144,900 144,900 248,900 94,700 47,100 143,400	Shumac, Turnfole, Tobacco leaf, Laces of thread and filk, Woollen cloth, Various fluffs, Woollen fluffs, Stuffs of thread and wood, — hair, — hair and wood, — rich in gold, Silk fluffs, Stuffs mixed with filk, Silk gauzes, Thread and filk gauzes, Thread and cotton handkerchiefs.	73,200 87,600 5,993,100 445,300 15,530,900 122,300 7,491,300 109,300 1,538,500 14,834,100 649,600 5,452,000 209,000 405,800
Various woods, Plank, Pitch and tar, Common aftes, Charcoal, Coals, Grains, Colefect, Garden-feeds, Flax-feed, Bours of filk, Hemp, Thread of flax and hemp,	383,500 1,151,900 1,086,900 62,900 Exports the 89,600 60,300 255,700 152,000 148,900 148,900 94,700 248,900 94,700 143,400 1,576,300 2,057,600	Shumac, Turnfole, Tobacco leaf, Laces of thread and filk, Woollen cloth, Various fluffs, Woollen fluffs, Stuffs of thread and wool, — hair, — hair and wool, — rich in gold, Silk fluffs, Stuffs mixed with filk, Silk gauzes, Thread and cotton handkerchiefs, Silk handerchiefs, Silk handerchiefs, Silk handerchiefs, Silk handerchiefs,	73,200 87,600 5,993,100 445,300 15,530,900 109,300 3,655,700 633,600 1,538,500 14,834,100 649,600 5,452,000 405,800 118,000 1,231,900
Various woods, Plank, Pitch and tar, Common aftes, Charcoal, Coals, Grains, Colefced, Garden-feeds, Flax-feed, Bours of filk, Hemp, Thread of flax and hemp, Wool, Silk,	383,500 3,151,900 2,086,900 62,900 Exports the 89,600 66,300 255,700 152,000 70,600 419,000 148,900 94,700 248,900 94,700 143,400 1,576,300 2,057,600 175,100	Shumac, Turnfole, Tobacco leaf, Laces of thread and filk, Woollen cloth, Various ftuffs, Woollen ftuffs, Stuffs of thread and woot, — hair, — hair andwool, — rich in gold, Silk ftuffs, Stuffs mixed with filk, Silk gauzes, Thread and filk gauzes, Thread and cotton handkerchiefs, Silk ribbons, Linen of flax and hemp mixed,	73,200 87,600 5,993,100 15,530,900 122,300 7,491,300 1,538,500 1,538,500 14,834,100 6,9,600 5,452,000 209,000 405,800 118,000
Various woods, Plank, Pitch and tar, Common aftes, Charcoal, Cocals, Grains, Garden-feeds, Flax-feed, Bours of filk, Hemp. Thread of flax and hemp, Wool, Silk, Boneterie of thread, &c.	383,500 3,151,900 2,086,900 62,900 Exports the 89,600 66,300 255,700 152,000 70,600 419,000 148,900 94,700 248,900 94,700 143,400 1,576,300 2,057,600 175,100	Shumac, Turnfole, Tobacco leaf, Laces of thread and filk, Woollen cloth, Various ftuffs, Woollen ftuffs, Stuffs of thread and woot, — hair, — hair andwool, — rich in gold, Silk ftuffs, Stuffs mixed with filk, Silk gauzes, Thread and filk gauzes, Thread and cotton handkerchiefs, Silk ribbons, Linen of flax and hemp mixed,	73,200 87,600 5,993,100 15,530,900 122,300 7,491,300 3,65,5.700 633,600 1,538,500 14,834,100 649,600 5,452,000 209,000 1231,900 1231,900
Various woods, Liqueurs and lemon juice, Various woods, Plank, Plank, Plank, Pltch and tar, Common affices, Charcoal, Coals, Grains, Colefeed, Garden-feeds, Flax-feed, Bours of filk, Hemp, Thread of flax and hemp, Wool, Silk, Bonetrie of thread, &c, ————————————————————————————————————	383,500 1,151,900 1,086,900 62,900 Exports the 89,600 60,300 2555,700 152,000 149,900 144,900 248,900 248,900 248,900 143,400 1,576,300 2,057,600 175,100 83,400 365,500	Shumac, Turnfole, Tobacco leaf, Laces of thread and filk, Woollen cloth, Various fluffs, Woollen fluffs, Stuffs of thread and wood, — hair, — hair and wood, — rich in gold, Silk fluffs, Stuffs mixed with filk, Silk gauzes, Thread and filk gauzes, Thread and cotton handkerchiefs, Silk handerchiefs, Silk nibbons, Linen of flax and hemp mixed, — flax, — fine,	73,200 87,600 5,993,100 445,300 15,530,900 122,300 7,491,300 109,300 1,538,5
Various woods, Liqueurs and lemon juice, Various woods, Plank, Plank, Pitch and tar, Common affees, Charcoal, Coals, Grains, Colefeet, Garden-feeds, Flax-feed, Bours of filk, Hemp, Thread of flax and hemp, Wool, Silk, Boneterie of thread, &c. ————————————————————————————————————	383,500 3,151,900 2,086,900 62,900 Exports the 89,600 66,300 255,700 152,000 70,600 148,900 144,900 75,700 248,900 94,700 143,400 1,576,300 2,657,600 175,100 83,400 365,500 413,100	Shumac, Turnfole, Tobacco leaf, Laces of thread and filk, Woollen cloth, Various fluffs, Woollen fluffs, Stuffs of thread and woot, — hair, — hair and woot, — rich in gold, Silk fluffs, Stuffs mixed with filk, Silk gauzes, Thread and filk gauzes, Thread and cotton handkerchiefs, Silk handerchiefs, Silk handerchiefs, Silk ribons, Linen of flax and hemp mixed. — flax, — fine, Cambric and linen,	73,200 87,600 5,993,100 15,530,900 122,300 7,491,300 19,300 3,65,700 633,600 1,538,500 14,834,100 649,600 12,427,200 1,727,800 12,427,200 1,727,800 346,300
Various woods, I.iqueurs and lemon juice, Various woods, Plank, Pitch and tar, Common afhes, Charcoal, Coals, Grains, Colefeet, Garden-feeds, Flax-feed, Bours of filk, Hemp, Tiread of flax and hemp, Wooll, Silk, Boneterie of thread, &c, ————————————————————————————————————	383,500 1,151,900 1,086,900 62,900 89,600 66,300 255,700 152,000 70,600 144,900 144,900 144,900 144,900 143,400 1,576,300 2,057,600 175,100 83,400 365,500 413,100 33,375,100	Shumac, Turnfole, Tobacco leaf, Laces of thread and filk, Woollen cloth, Various fluffs, Woollen fluffs, Stuffs of thread and wood, — hair, — hair and wood, — rich in gold, Silk fluffs, Stuffs mixed with filk, Silk gauzes, Thread and filk gauzes, Thread and cotton handkerchiefs, Silk handerchiefs, Silk handerchiefs, Silk handerchiefs, Silk handerchiefs, Silk nibbons, Linen of flax and hemp mixed, — flax, — fine, Cambric and linen, Linen of thread and cotton,	73,200 87,600 5,993,100 15,530,900 122,300 7,491,300 109,300 3,655,700 633,600 14,834,100 649,600 5,452,000 209,000 1,231,900 12,427,200 1,727,800 346,300 6,173,200
Various woods, Plank, Pitch and tar, Common aftes, Charcoal, Cocals, Grains, Colefect, Garden-feeds, Flax-feed, Bours of filk, Hemp, Thread of flax and hemp, Wool, Silk, Boneterie of thread, &c,	383,500 1,151,900 1,086,900 62,900 89,600 66,300 255,700 152,000 70,600 144,900 144,900 144,900 144,900 143,400 1,576,300 2,057,600 175,100 83,400 365,500 413,100 33,375,100	Shumac, Turnfole, Tobacco leaf, Laces of thread and filk, Woollen cloth, Various fluffs, Woollen fluffs, Stuffs of thread and wood, — hair, — hair and wood, — rich in gold, Silk fluffs, Stuffs mixed with filk, Silk gauzes, Thread and filk gauzes, Thread and cotton handkerchiefs, Silk handerchiefs, Silk handerchiefs, Silk handerchiefs, Silk handerchiefs, Silk nibbons, Linen of flax and hemp mixed, — flax, — fine, Cambric and linen, Linen of thread and cotton,	73,200 87,600 5,993,100 15,530,900 122,300 7,491,300 109,300 3,65,5,700 633,600 1,538,500 14,834,100 649,600 5,452,000 209,000 123,1900 12,427,200 1,727,800 346,300 6,173,200 291,400
Various woods, I.iqueurs and lemon juice, Various woods, Plank, Plank, Pltch and tar, Common aftes, Charcoal, Coals, Grains, Colefeed, Garden-feeds, Flax-feed, Bours of filk, Hemp, Thread of flax and hemp, Wool, Silk, Boneterie of thread, &c, ————————————————————————————————————	383,500 1,151,900 1,086,900 62,900 89,600 66,300 255,700 152,000 70,600 144,900 144,900 144,900 144,900 143,400 1,576,300 2,057,600 175,100 83,400 365,500 413,100 33,375,100	Shumac, Turnfole, Tobacco leaf, Laces of thread and filk, Woollen cloth, Various fluffs, Woollen fluffs, Stuffs of thread and wood, — hair, — hair andwool, — rich in gold, Silk fluffs, Stuffs mixed with filk, Silk gauzes, Thread and filk gauzes, Thread and cotton handkerchiefs, Silk handerchiefs, Silk handerchiefs, Silk handerchiefs, Silk ribbons, Linen of flax and hemp mixed. — flax, — fine, Cambric and linen, Linen of thread and cotton, — flamoifes, — hemp,	73,200 87,600 5,993,100 15,530,900 122,300 7,491,300 109,300 3,655,700 633,600 14,834,100 649,600 5,452,000 209,000 1,231,900 12,427,200 1,727,800 346,300 6,173,200

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liv. 12,600 72,400 33,400 94,900 65,300 91,100 55,800 25,000 19,400 59,000 69,500 82,700

99,200 602,100 192,700 192,700 132,000 157,700 50,100 117,900 90,000 59,000 805,400 875,500 126,500 Drelles,

		liv.)		
Wax,	_		Raw ditto	- 12	liv.
Wax candles, -	-		Dried ditto.	•	131,500
Woollen blankets			Prunes dried,	•	69,600
Raw leathers, -	•		Grapes,	• , •	791,700
Prepared leathers, -				•	324,200
Leather curried, -	-	304,500		•	2,608,300
tanned, -	•	1,7,700	Meslin and Maize.	-	239,400
Distilled water and oil	•				52,700
Gloves of Skins,	-		Indian corn,		633,100
Grenobie,	• •		Barley, -	•	321,100
Dreffes, -			Legumes,	-	558,600
	-		Oil of Olives,	• -	1,346,100
Oil of grains,	•	368,100		•	361,800
Cork,	•	65,500		-	75,200
in plank,	•	110,600		41	2,189,800
Cabinet ware,	•	05,700	Wine brandy,	• •	11,035,200
Willow ware, -			Corn ditto, -	•	1,045,500
Cole feed cakes,	• •		Liqueurs, -	•	205,300
Parchment, -	•		Wines, -	•	6,807,900
Perfumery, -	-		Wines of Bourdeaux,	•	16,150,900
Various skins, -	•		Vinegar, -	•	124,400
Skins of goats and kids,	-	156,8co		•	108,600
calves prepared,	•	448,600	Oxen (No. 7659),	-	1,088,200
fheep ditto,	•	312,500	Sheep (No. 104.990),	•	1,017,200
calves curried,	•	1,571,100		•	965,800
fheep and calves ta	nned,		Cows and bulls,		227,000
Feathers prepared,	•		Horfes, -	•	455,700
Soap, -	•	1,376,700		-	1,509,000
Various edibles, -	•		Saffron, -	•	2 9 200
Almonds, -	-	450,800	Oil of terebinth,		46,000
Butter, -		118,410	Terebinth, -	-	128,400
Salt meat, -	•	121,400	Verdigrife -	•	26,300
Flour, -	-	1,271,500	Tobacco leaf,		418,400
Cheefe, -			rappé, -		653,100
Various fruits, -	-	279,000			-55,000
		• • •			

N. B. The provinces of Loraine, Alface, and the three bishoprics, are not included in this account, nor any export or import to or from the West Indies.

Total export, import,	: :	307,151,700 livres. 271,365,000
Balance, -	•	35,786,700=£.1,565,668 flerling.

Imports into France in 1787.

Steel from Holland, Switzerland, and	liv. Coals from En and, Flanders, and	liv.
Germany, Copper, Tin from England, Iron from Sweden and Germany, Brais from ditto, Lead from England and the Hauseatic towns, Seel manufactures from Germany and England.	862,000 Tuscany, 7,217,000 Woods from the Baltic, 885,000 Woods feeillard & mercin,	- 5.674,coo 5.404,000 1,593,000 - 262,000 1,557,000 5,762,000 2,260,000 962,000

iv.

1,500 1,500 1,700 4,200 4,300 0,400

3,100 1,100 8,600 6,100

1,800 5,200 9,800 5,200

5,500 5,300 7,900 0,900 4,400 8,600 7,200 5,200 7,200 5,700 9,200 9,200 6,000 8,400 8,400 8,400

ed in

ling.

liv. 4,000 0²,000 93,000 52,000

7 000 62,000 60,000 15,000 72,000 V heat,

liv	liv.
Wheat, - 8,116,	000 Goat's hair from Levant, - 1,137,000
Rice, - 2,040,	ooo Briftles of hogs and wild boars, - 275,000
Bailey, 375.	
Legumes, 545,	000 Raw wool, 20,884,000
Fruits, 3.060,	
Butter, 2,507,	
Salt beef and pork, - 2,960,6	
Cheefe, 4,532,1	
Oil of Olives, - 16,645,	
Brandy of corn, - 1,874,	
of wine, 3,715,	
Wines, 1,470	
Beer 469,	
Oxen, sheep, and hogs, - 6,6.6,	
Horses and mules, 2,911,	
Raw hides, 2,737,	
Skins not prepared, - 1,180,	

Exports in the same Year.

•		
	liv.	liv.
Timber and wood of all forts, -	166,300	Butter, 88,600
Pitch and Tar,	317,100	Salied meat, - 497,700
Ashes for manure,	59,400	Preserved fruits, 1,518,600
Charcoal,	31,300	Corn of all forts, except hereafter
Vetch hay,	12,000	named, 1,165,600
Garden seeds, flax-seed, &c	988,500	Wheat, - 6,559,900
Grenfe,	17,300	Legumes, '949,700
Hope,	105,600	Olive oil, 1,732,400
Tallow-loaves,	145,600	Honey, 544,600
Cocoon filk refuse,	41,500	Eggs, 99,800
Threads of all forts, -	241,800	Salt, 2,322,500
Hemp,	117,100	Poultry, 35,700
Wool, raw, and fpun, -	4,378,705	Cyder, 17,500
Flax,	22,800	Brandy of wine (114,044 muids,) 14,455,600
Rabbits' wool, -	10,400	Liqueurs, - 234,000
Silk,	628,000	Wines in general (159,222 muids,) 8,558,200
Starch,	32,200	Bourdeaux (201,246 muids,) 17,718,100
Candles,	131,900	- Vin de liqueurs, - 10,000
Horfes,	47,100	Vinegar, 130,900
Wax,	307,800	Oxen, hogs, fleep, &c 5,074,200
Cordage,	268,000	Mules, horfes, alles, - 1,453,700
Tanned leather,	1,280,300	Juice of len ons, 60,000
Rew leather	116,000	liquorice, 25,500
Distilled waters and oils,	162,500	Liquorice, 24,600
Pigeon's dung,	37,000	Saffron, 214,900
Spirit of wine,	144,700	Reots of Allifary, - 1,500
I flences.	10,000	Salt of tartar, - 14,900
Staves, -	22,800	Shumac, 10,200
Gloves	428,900	Terebinth, 33,100
Lin ced-oil, -	174,400	Turnfole, 12,200
Corks, -	139,000	V-rdigrise, 512,400
Colc-feed oil cakes	4.9,500	Cloth, 14,242,400
Shee, roebuck, and calve-skins tanned,	2,705,200	Woollen fluffs, 5,6 5,800
Feathers for beds,	(1,100	Cotton, linen, cambric, &c 19,692,000
Soap,	1,752,800	Of this cambric, 5,230,000 liv.
Almonds, -	850,500	1
VOL. 175		x X Total

Total exports, including the articles not here minuted, 349,725,400 liv. 310,164,000

Balance, - - :9,:41,400 L.1,729,936 fterling.

EXPLANATION.—The contraband trade of export and import has been calculated, and the true balance found to be about 25,000,000 liv. (1,003,7501,) the provinces of Loraine, Alface, the three biftopries, and the Weft-Indies, not included.

Obscrvations.

The preceding accounts of the trade of France, for these two years, are correct in all probability in the articles noted; but that they are imperfect there is great reason to believe. In 1787 there is an import of raw metals to the amount of above twenty milhons: but in the account of 1784 there is no fuch article in the lift, which is plainly an omiffion. And though coals are among the exports in 1784, there are none in the imports, which is another omiffion. In the manufactured articles also are various omiffions, not easily to be accounted for, though the treaty of commerce explains some articles, as that of cotton manufactures, &c.: the idea to be formed of the exports and imports of France should be gathered from an union of the two, rather than from either of them feparate. No idea, thus to be gained or acquired by any other combinations, will allow for one moment the possibility of a balance of commerce of 70,000,000 livres, (3,062,500l.) in favour of France, which Monf. Necker has calculated it to be, in his book, De l'Administration des Finances, and which calculation the Marquis de Cassaux, in his Mechanism des Societés, has refuted in an unanswerable manner. It will be curious to examine what is the amount of the imports of the produce of land, minerals excluded.

In 1784 the imports of the	produce of	In 1787 the i	ame articles :	are,
land amounted to,	•			liv.
•	liv.	Wool, -	•	20,884,000
Wool,	25,925,000	Silk, -		28,266,000
Silk,	29,582,700	Hemp and flax,	•	11,096,000
Hemp and flax,	5,494,800	Oil,	•	16,645,000
Oil,		Live stock,	-	29,079,000
Live flock and its produce,			•	11,476,000
Corn,	5,651,500	Tobacco,		14,:42,000
Sundries,	24,800,700	Sundries,		24,206,00 0
	135,558,800			155,794,000

She may be faid, therefore, to import in a common year about 145,000,000 livres (6,343,7501.) of agricultural products: and these imports are a striking proof, that I was not wide of the truth when I condemned so severely the rural economy of France in almost every particular, the culture of vines alone excepted. For the country, of all Europe, the best adapted by nature to the production of wool, to import so immensely, shews how wretchedly they are understocked with sheep; and how much their agriculture suffers for want of the fold of these sive or six millions, in which they are desicn at even for their own demand. The import of such great quantities of other forts of live stock also speaks the same language. Their husbandry is weak and languishing in every

part of the kingdom, for want of larger flocks of cattle, and the national demands cannot be supplied. In this trade of live stock there is, however, one circumstance which does the highest honour to the good sense and policy of the old French government; for though wool was fo much wanted for their fabrics, and many measures were taken for increasing sheep and improving the breed, yet was there no prohibition on the export either of live fheep or wool, nor any duty farther than for afcertaining the amount. It appears that they exported above 100,000 sheep annually; and this policy they embraced, not for want of experience of any other (for the export was prohibited for many years,) but finding it a discouragement to the breed, they laid the trade open, and the fame plan has been continued ever fince; by this fyftem they are fure that the price is as high in France as amongst her neighbours, and contequently that there is all the encouragement to breed which fuch equality of price can give. The export of woollen manufacture in 1784, amounts to 24,795,800 livres, or not equal to the import of raw wool. On the general account, therefore, France does not supply herself; and the treaty of commerce having introduced many English woollen stuffs, she is at present further removed from that supply. Considering the climate, soil, and population of the kingdom, this state of her woollen trade certainly indicates a most gross neglect. For want of having improved the breed of her sheep, her wools are very bad, and she is obliged to import, at a heavy expence, other wools, fome of which are by no means good; and thus her manufactures are under a heavy disadvantage, on account of the low state of agriculture. The steps she has taken to improve her wools, by giving pensions to academicians, and ordering experiments of enquiry upon obvious points, are not the means of improvement. An English cultivator, at the head of a sheep farm of three or four thousand acres, as I observed above, would, in a few years, do more for their wools than all the academicians and philosophers will effect in ten centuries.

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BAYONNE.—Trade here is various, the chief articles are the Spanish commerce, the Newfoundland fishery, and the coasting trade to Brest, Nantes, Havre, Dunkirk, &c. they have an export of wine and flour, and they manufacture a good deal of table linen. They build merchant ships, and the king has two frigates on the stocks here under flated roofs. Of a merchantman, the workmanship alone amounts to about 15 livres a ton. They reckon two thousand failors and fishermen, including the basque men, about fixty ships of different fizes, belong to the place, eight of which are in the American trade, feventeen in the Newfoundle . fishery, of from eighty to one hundred tons average, but fome much larger; the rest in the Spanish, Mediterranean, and coasting trades. amen here are paid in the Newfoundland fishery 36 liv. a month wages, and one quintal in five of all the fish caught. To Dunkirk 27 liv. to Nantes 45 liv. per voyage; to the coast of Guinea 50 liv per month; to Boston and Philadelphia 50 liv. to St. Sebastian 24 liv. the voyage; to Bilboa 36 liv. to St. Andero 40 liv. to Colonia and Ferrol

46 liv. to Lisbon and Cadiz 30 liv. a-month, and for three months certain.

BOURDEAUX.—All the world knows that an immense commerce is carried on at this city; every part of it exhibits to the traveller's eye unequivocal proofs that it is great; the fhips that lye in the river are always too numerous to count eafily; I guess there are at prefent between three and four hundred, besides small craft and barges; at some seafons they amount to one thoufand or fifteen hundred, as I was affured, but know not the truth of it; I rather question it, as it does not feem absolutely to agree with another account, which makes the number of thips that enter the harbour ten on an average every day; or, as afferted by others, three thousand in a year. It may be fufficient to say, at prefent, that here are every fign of a great and flourishing trade; crouds of men all em-

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ployed, bufy, and active; and the river much wider than the Thames at London, ani-

mated with fo much commercial motion, will leave no one in doubt.

Ship-building is a confiderable article of their trade; they have built fixty ships here in one year; a fingle builder has had eight of his own on the flocks at a time; at prefent they reckon the number on an average from twenty to thirty; the greater number was towards the termination of the war, a speculation on the effect of peace; there are fixty builders who are registered after undergoing an examination by an officer of the royal navy; they reckon from two to three thousand ship-carpenters, but including the river Garonne for many leagues; also fifteen hundred failors, including those carpenters; the expence of building rifes to 51. a ton, for the hulk, marks, and boats; the rigging and all other articles about 41, more; thirty-three men, officers and boys included, are eftimated the crew for a vessel of 400 tons, eight men for one of 100 tons, and so on in proportion; they are paid all by the month from 30 to 36 liv. fome few 40 liv. carpenters 40 to 50% a day, and fome 3 liv. There are private ship-owners, whose whole trade consists in the possession of their vessels, which they navigate on freight for the merchants; they have a calculation, that ships last one with another twelve years, which would make the number possessed by the town three hundred, built by themselves; a number I should apprehend under the truth; the Bretons and Dutch build also for

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Ships of a larger burthen than feven hundred tons cannot come up to the town but in fpring tides.

The export of wine alone is reckoned to amount to eighty thousand tons, besides which

brandy must be an immense article.

HAVRE DE GRACE.—There is not only an immense commerce carried on here, but it is on a rapid increase; there is no doubt of its being the sourth town in France for trade. The harbour is a forest of masts; they say, a 50 gun ship can enter, I suppose without her guns. They have some very large merchantmen in the Guinea trade of 5 or 600 tons, but by far their greatest commerce is to the West-India sugar islands; they were once considerable in the fisheries, but not at present. Situation must of necessity give them a great coassing trade, for as ships of burthen cannot go up to Rouen, this place is the emporium for that town, for Paris, and all the navigation of the Seine, which is very great.

Sailors are paid 40 liv. a month.

There are thirty Guineamen belonging to the town, from 350 to 700 tons; one hundred and twenty West-Indiamen; one hundred coasting trade; most of them are built at Havre. The mere building a ship of 300 tons is 30,000 livres, but sitted out 60,000 livres.

The increase of the commerce of Havre has been very great in twenty-sive years, the expression used was, that every crown has become a louis, and not gained by rivalling other places, but an increase nationally, and yet they consider themselves as having suffered very considerably by the regulations of the Maréchal de Castries, in relation to the colonies; his permitting foreigners to serve them with salt provisions, lumber, &c. opened an immense door to smuggling manufactures in, and sugar out, which France feels severely.

HONFLEUR.—The bason full of thips, and as large as those at Havre, I saw some of at least 600 tons.

CHERBOURG.—Sailors 36 liv. to 40 liv. a month.

St. Brieux.—The ships belonging to this little port are generally of 200 tons, employed in the Newfoundland fisheries, carrying sixty men of all forts, who are paid not

not by flares, but wages by the voyage: feamen two hundred livres, to two hundred and fifty livres, and fome to five hundred livres.

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Nants.—The accounts I received here of the trade of this place, made the number of ships in the sugar trade one hundred and twenty, which import to the amount of about thirty two millions, twenty are in the flave trade; these are by far the greatest articles of their commerce; they have an export of corn, which is considerable from the provinces washed by the Loire, and are not without minoteries, but vastly inferior to those of the Garonne. Wines and brandy are great articles, and manufactures even from Switzerland, particularly printed linens and cottons, in imitation of Indian, which the Swiss make cheaper than the French fabrics of the same kind, yet they are brought quite across France; they export some of the linens of Bretagne, but not at all compared with St. Maloes, which has been much longer established in that business. To the American States they have no trade, or next to none. I asked if Bourdeaux had it? No. Marfeilles? No. Havre? No. Where then is it? Tout en Angleterre.

The accounts they give here of the trade to the Sugar Islands is, that Bourdeaux has twice as much of it as Nantes, and Havre to the amount of twenty-five millions, this will make it.

Bourdeaux, Nantes, Havre,			liv. 60,000,000 30,000,000 25,000,000	And the prop Bourdeaux, Nantes, Havre,	portion of	ships, - -	2740 1,20
Marfeilles,	•	-	50,000,000	Marfeilles,	-	•	460
But at Havre	they ta	lk of 1	165,000,000				600

The whole commerce of these isless they calculate at 500 millions liv. by which I suppose they mean exports, imports, navigation, profit, &c. &c.

The trade of Nantes is not at prefent to great as it was before the American war; thirty thips have been building here at once, but never half that number now; the decline they think has been much owing to the Marithal de Castries' regulations, admitting the North Americans into the Sugar Islands, by which means the navigation of much sugar was lost to France, and foreign fabrics introduced by the same channel. The 40 livres a ton given by government to all ships that carry slaves from Africa to the Sugar Islands, and return home with sugars, and which I urged as a great favour and attention in government, they contended was just the contrary to a favour; it is not near equal to what was at the same time taken away; that of favouring all cargoes of sugar in ships under that description, with paying only half the duties, $2\frac{1}{2}$ instead of 5 per cent. and which equalled 60 liv. per ton instead of 40.

A ship of 300 tons in the sugar trade thirty hands, but not more than sixteen or eighteen good ones, because of the law which forces a certain proportion of new hands every

West-India estates in general render to their owners at Nantes 10 per cent. on the capital so invested.

They affert, that if the East-India trade was laid open, numbers here would engage in it. There is a ship of 1250 tons now at Pambon, idle for want of employ.

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A circumstance in ship building deserves attention. It was remarked in conversation, that many Spanish ships last incomparably longer than any other; that this is owing to mastic being laid on under the copper bottom. Mons. Epivent, a considerable merchant here, has tried it and with the greatest success; copper bottoms all with copper bolts instead of iron ones.

Building a ship of 300 tons, 30 to 35,000 livres; ten now building.

L'Orient.—Every thing I saw in this port spoke the declension of the Indian commerce, the magazines and warehouses of the company are immense, and form a spectacle of which I had seen nothing of the kind equal, but the trade is evidently dead, yet they talk of the company possessing ten ships from 600 to 900 tons, and they even say, that sive have gone this year to India and China. In 1774,5,6, it was great, amounting to sixty millions a year. What activity there is at this port at present, is owing to its royal dock for building some men of war. It is the port at which the farmers general import their American tobacco, the contract of which was for 25,000 hogsheads, but dwindled to 17,000.

MARSEILLES. - I found here as at the other great ports of France, that the commerce with North America is nothing, not to a greater amount than a million of livres a year.

The great trade is that of the Levant.

I was informed here, that the great plantation of Monf. Galifet, in St. Domingo, has 1800 negroes on it, and that each negroe in general in the island produces gross 660 liv. feeding himself besides.

Wages of feamen 33 to 40 liv. a month; in the Mediterranean 33, America 40 liv. A ship of 200 tons building here costs for timber only 25,000 liv. of 300 tons 40,000 liv. of 400 tons 75,000 liv., the wood is from 50 to 70% per cubical foot; fitting out afterwards for fea, costs nearly the same.

West India Trade.
The following is the state of the trade in 1775, as given by Monsieur l'Abbe Raynal.

			1	Value.	Re exported from France.	Value of re- export.
·			liv.	liv.	lb.	liv.
Sugar,	•	•	166,353,834	61,149,381	104,049,866	38,703,720
Coffee,	•	•	61,991,699	29,421,099	52,048,246	23,757,464
Indigo,	•	•	2,067,491	17,573,73	1,130,638	9,610,42
Cacao,	-	•	1,562,027	1,003,419		
Rocon,	•	-	352,210			
Cotton,	•	•	3,407,157			255,14
Hides,	•		16,123			5,11
Carret,	-	•	8,912		10	1,000
Canefice,	•	-	206,916	55,752		
Wood,			9,441,900			400,355
Sundries.		~	ייייני דינע ן	1,352,148		400,333
Silver,	-	•		2,600,000		
				125,375,213		73,425,535
Sterling	-	-				

Ships that carried on Trade the fame Year.

				Ships				Ships
Dunkerque		-	•	13	La Rochelle,	-	•	2.1
Le Havre,				95	Bourdeaux,			22.3
Honfleur,		•			Bayonne,	-	•	9
St. Malo,	•	-		13	Marfeille,	•	-	71
Nantes,	-	•	•	112				
								562

In 1786, the imports from these colonies into France were,

			liv.
St. Domingo,	-	•	131,481,000
Martinique,	•	•	23,958,000
Guadaloupe,	•	•	14,360,000
Cayenne,	-	-	919,000
Tobago,			4,113,000
St. Lucie, nothi	ng directly.		
			* 1.74.831.000

Of these, -Sugar, 174,222,000lb. - Coffee, 66,231,000lb. - Cotton, 7,595,000lb.

The navigation in 569 ships, of 162,311 tons, of which Bourdeaux + employs 246 ships of 75,285 tons.

In 1786 the import of raw fugar was greater than in 1784, by 8,475,000 Of white fugar, by 17,155,000 Of cotton, by 2,740,000

Cotton has been increasing in demand by foreigners, who took in 1785, more by

1,495,000lb. than in 1784; and in 1786 more by 1,798,000lb. than in 1785.

In 1784, France sent to Africa 72 ships of 15,198 tons. In 1785, the number 102 ships of 36,429 tons, and in 1786, she employed 151 ships of 65,521 tons, the cargoes worth 22,748,000 liv. of which navigation Nantes possessed 42 ships; the cargoe consisted of

		liv.			liv.
Arms,	-	617,0001 Co	wrie-shells,	•	1,250,000
Pitch and tar,	•	82,000 Co	cal, -		265,000
Cafes, .	-		rdage and fails,	•	357,000
Salt meat, &c.	-	677,000 Cu	tlery, -	-	132,000

* Total in 1784 was 130,000,000 liv. What can Monsieur Begouen, of Flavre, menn by raising this to 230, 00,000? -- 800 fhips? -- 1200 fhips? -- 25,000 seamen? and I do not know what other extravagances. Precis for l'Importance des Colonies. vo 1790, p. 3,5, &c. Another writer states, 800 large ships, 500 small ones, and value 40 millions? Opinion de Monsseur Blin. p. 7. How these calculations are made, I do not conceive.

† Bourdeaux I take to be a place of greater and richer trade than any provincial town in the British do-

minions. Our greate					
	Tons. Seamen.		Tons. Seamen.		Tens. Seumen.
Newcastle, which in		Whitehaven, -	53, 00 - 4, 00	Briftol,	33,000 - 4,070
17:7 poffelled of		Sunderland,	53,000 - 3,300	Yarmouth,	32,000 -
fhipping, -	10 ,000 - 5,3 0	Whithy, -	46,000 - 4,:00	Lynn, -	16,000.
Liverpool, -	71,000 - 10,0.0	Hull, -	46,000 -	Dublin, -	14,000:
•					Copper

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Ships

Copper,	•	-		Handkerchiefs, -		735,000
Woollen cloths,		•	393,000	Piastres, -	-	514,000
Brandies,			1,289,000	Beads, &c	•	123,000
Stuffs of all forts	,	•	506,000	Rice,	-	257,000
Flour -	•	•	186,000	French linens, -	•	2,205,000
Iron, -		•	446,000	Foreign ditto, -	-	8,865,000
Oil of olives,	•	•	41,000	Bourdeaux wines.		655,000
Legumes,			415,000	Other wines, -	•	114,000
Liqueurs.		•	100,000			

The returns to France in fix ships of \$1180 tons, brought \$55,000lb. of gum Senega, \$7,000lb. of elephant's teeth, both worth 1,173,000 livres.

But the flave trade on French bottoms did not increase with the increase of the African trade in general.

In 1784, fl	was ful.1	in the ide		24,116
		in the mes	 _	24,110
1785, d			 -	17,147
1786, d	itto. •		 	26, CC

But as the produce increased, there seems reason to think, that foreigners partook of this trade.

Thefe in French bottoms, the total numbers must be much more confiderable, as appears from the following table of St. Domingo only:

Years.	No Negroes fold.	Price.	Years.	Coffee fold.	Price.
1783 1784 1785 1785 1737	9,370 2,025 21,762 27,648 30,839 29,500	liv. 15,6 :0,000 43,602,000 43,634,000 54,420,000 60,563,000 61,936,000	1783 1784 1785 1786 1787	1b. 44,573,000 52,885,00 57,468,000 52,18,000 70,103,000 68,151,000	lb 33,429,750 44,051,250 57,368,000 57,398,000 91,003,900 92,003,850*

It deferves observation, that while the quantity almost trebled in five years, the price rose continually.

Exports from France to these Isles in 1756.

To St. Domingo - - - - 44,712,000 liv.

Martinique, - - - - - 12,109,000

Guadaloupe, - - - - 6,274,000

Cayenne †, - - - - - 578,000

Tobago, - - - - - 658,000 St. Lucie, nothing directly, 64,341,000

† 10 17/7, it was 600,0.0 livres

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Mémoire Frongé le 18 Juin 1790, au Comité des Rapports, par M. de la Leizerne, Ministre & Sec. d'Etat, 4to p 70.

		Yo	UNO'S TRAVE	LS IN FRANCE.	345
Confilling of			livres.	Counting of Muslins, French, foreign, and	livres.
Salted beef,		•	1,264,000		
Stockings and cap	8,	•	722,000	Indian,	789,000
Hats, &c	•	•	1,676,000	Mercery and clinqualerie	1,028,000
Cordage and fails,		•	2,657,000	Furniture,	374,000
Silk lace, -		•	791,000	Sundries,	804,000
Woollen cloths,	•	•	602,000	Shoes,	1,248,000
Stuffs of all forts,		•	1,442,000	Soap,	1,402,000
Brandy, -	-	•	467,000	Tallow and candles, -	1,420,000
Flour, -	-	•	6,515,000	French linens,	13,360,000
Iron,	-	-	1,410,000	Foreign linens,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Clicefe, -	•	•	740,000	Bourdeaux wines,	5,490,000
Oil of olives,	•	•	1,314,000	Other wines and liquors,	1,080,000
Linen, -	-	-	697,000		-
Handkerchiefs,	•	•	1,696,000		64,342,000
exported purfuant	to th	e arro	t of August 3	oth, were 4,967,000 livres.	oreign articles
				s.—Exports to them, 64,341,	ooo nvres.
Balance against	Fran	ce, 21	0,490,000.		
The exports in	1786	to the	e liles were lei	s than those of 1785 by 12.76	1,000 livres.
But the exports	to S	enegal	were greater	by 12,514,000 livres.	
The decrease wa	s in	manul	actures.	•	
			**		

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Linens in 1784, 17,796,000 livres.—1786, 13,363,000 livres. August 30, 1784, in the Ministry of the Marcchal de Calvies, foreigners were permitted, under certain regulations, to trade to the French jugar islands, after a spirited controversy in print for and against the measure. The trade of 1786, in consequence of this arret, was as follows:

Imports in the) Ext	borte	from Dit	to.	
Imports in the	` li	vics.	1	,,,,	,. o 2		livres.
From the United States,	13,0	065,000	To the Americ		•	7	,263,000
English,		550,000	English	,		1,	259,000
Spaniards,	2,2	201,000	Spaniar	ds,	•	3.	189,000
Dutch,	. 8	301,000	Dutch,			2,	०८०,०००
Portuguese,		52,000	Swedes	and	Danes,		391,000
Danes,	•	68,000	1			-	
Swedes,	•	41,000				14,	132,000
		78,000				-	
	20,0	70,000	i				
	Nar	igation e	of this Trade.				
Imports.		•	j I	Ex_i	ports.		
Ships.		Tonk,		,	Ships.		Tons.
American vessels, 1,392	<u> </u>	05,095	American,	-	1,127	_	85,403
French, - 313		9,122	French,	•	534		13,941
English, - 189		10,192	English, -	•	153		10,778
Spanish, - 245		6,471	Spanish,	•	249	-	5,856
Dutch, Portuguele,			Dutch, &c.	-	32		1,821
Swedes, and Danes, 34		2,229			2 (0 1		
	-	100			2,095		117,799
2,102	1	33,109 Y Y					As
vol. IV.		x x					118

As the cultivation and exports from the isles in 1786, were greater than in 1784, the demand for French manufactures ought to have been greater also; but this was not the case;

Export of French linens to the	e ifles in 1	784,	17,796,000 liv.
			13,363,000
Aulus of French linen -		784,	7,700,000
		1785,	5,200,000
	:	1786,	6,100,000

It would have been found fo, if the arret of August 30 had not opened the colonies to foreigners, who introduced manufactures as well as lumber and provisions. It is a great question, whether this was right policy; the argument evidently turns on one great hinge; the peculiar benefit to the mother country, from pofferling colonies, is their fupply; to fell them whatever they demand, and to fecure the navigation dependent. It is not, to be fure, of fugar and coffee that nations plant colonies; they are fure of those, and of any other commodities if they be rich enough to pay for them; a Russian or a Pole, is as certain of commanding sugar as a Frenchman or an Englishman; and the governments of those countries may raise as great a revenue on the import, as the governments that possess the islands. The peculiar benefit, therefore, of colonies, is the monopoly of their fupply. It is in vain to fay, that permitting the colonists to buy what they want at the cheapest and the best hand, will enable them to raise so much more fugar, and tend ultimately to the benefit of the mother country; fince, let them grow as rich as possible, and increase their culture to any degree whatever, still the advantage of the mother country arises from supply; and if she loses that to gain more fugar, the lofes all for which the possession is derirable. It would be right for every country to open her colonies to all the world on principles of liberality and freedom; and still it would be better to go one step farther, and have no colonies at all. The fugar islands of all nations, in the West Indies, including the great island of Cuba, are confiderable enough to form an independent free nation; and it wants not many arguments to show, that the existence of such an one would be far more beneficial to the English, French, and Spaniards, than the possession of those islands as colonies. To return, however, to the arret of August 30, there is reason to believe, that the policy which induced the Marichal de Caffries to alter the existing laws relating to foreigners was queilionable, and attended with cvils, in proportion to the extent of the trade that took place in confequence.

The refult of the French fugar trade refembles nearly that which England carries on with ner fugar colonies, namely, an immense balance against her. We have writers who tell us, that this trade ought to be judged by a method the reverse of every other, the merit of it depending not on the exports, but on the imports: I have met with the same idea in France; and as it is an object of very great consequence in the national economy, it may be worth remarking,—1, That the advantages resulting from commerce, are the encouragement of the national industry, whether in agriculture or manufactures; and it is unquestionably the exports which give this encouragement, and not the imports of a trade, unless they are the raw materials of future labour. 2. The real wealth of all trade consists in the consumption of the commodities that are the object of such trade; and if a nation be rich enough to consume great quantities of sugar and coffee, she has undoubtedly the power of giving activity to a certain quantum of her own industry, in consequence of the commerce which such consumption occasions, whether the sugar be the product of her own colonies, or those of any other power.

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3, The taxes levied on West-Indian commodities are no motive whatever for esteeming the possession of such colonies beneficial, since it is the consumption that pays the tax, and not the possession of the land that produces the commodity. 4, The monopoly of navigation is valuable no farther than as it implies the manufacture of flip-building and fitting out; the possession of many failors, as instruments of future wars, ought to be effeemed in the same light as great Russian or Prussian armies; that is to say, as the means of ambition; and as the instruments of wide-extended misery *. 5, The possesfion of fugar islands is the investment of immense capitals in the agriculture of America, instead of the agriculture of France: the people of that kingdom starve periodically for want of bread, because the capitals which should raise wheat in France are employed on fugar in St. Domingo. Whatever advantage the advocates for colonies may be fupposed to see in such possessions, they are bound to shew, that the investment of equal capitals in the agriculture of France would not be productive of equal and even of infinitely superior benefits. 6, It is shewn, in another place, that the agriculture of France is, in the capital employed, 450,000,000l. inferior to that of England; can any madness, therefore, be greater than the investment of capitals in American agriculture for the fake of a trade, the balance of which is above 100,000,000 livres against the mother country, while nothing but poverty is found in the fields that ought to feed Frenchmen? 7, If it be faid, that the re-exportation of West-Indian commodities is immense, and greater even than the balance, I reply, in the first place, that Monf. Necker gives us reason to believe, that this re-exportation is greatly exaggerated; but granting it to rife to any amount, France bought those commodities before she fold them, and bought them with hard cash to the sum of the balance against her; first losing by her transactions with America the sums the afterwards gains by exporting to the north. The benefit of fuch a trade is nothing more than the profit on the exchange and transport. But in the employment of capital, the loss is great. In all common trades, such as those she carries on with the Levant, or with Spain, she has the common profit of the commerce, without investing any capitals in producing the commodities the buys; but in the West-Indian commerce she invests double capitals, to produce the goods she fells, and equally to produce the goods she buys. 8, If it should be said that St. Domingo is not to be confidered as a foreign country, with which France trades, nor a colony, but as a part of itself; and that the balance between them is like the balance between them and the provinces, then I reply, that it is so ill situated a province, that to encourage a deviation of capitals from all other provinces to be invelled in this, is little short or madness; first, from distance and cultivation by slaves, it is insecure. If it escapes the attacks of European foes, the natural progress of events will throw it into the hands of the United States. Secondly, it demands a great navy to defend it; and confequently taxes on all the other provinces, to the amount of two millions sterling per annum. Of what expence to Languedoc, is the possession of Bretagne? Its proportion of the common defence. Is this fo with St. Domingo? France pays a marine of two millions, but St. Domingo does not pay one shilling to defend France, or even to defend itself. In common sense, the possession of such a province ought to be deemed a principle of poverty and weakness, rather than of riches and of strength. 9, I have

^{*} Prejudices of the deepeft root are to be eradicated in England before men will be brought to admit this obvious truth. Those prejudices took their rife from a dastardly fear of being conquered by France, which government has taken every art to propagate ever fince the revolution, the better to promote its own plans of expense, profusion, and public debts. Portugal, Sardinia, the little Italian and German States, Sweden, and Denmark, &c have been able, deficient as they are in government and in people, to defend themselves; but the British isses, with fifteen millions of people, are to be conquered 11

conversed on this subject at Havre, Nantes, Bourdeaux, and Marseilles; and I have not yet met with a man able to give me one other folid reason for such a system than the fact that agriculture in the West Indies is profitable, and not so in France. The same argument is used, and with equal truth, in England. I admit the fact; and it recurs at once to the pernicious doctrine of laying such taxes, restrictions, prohibitions, and monopolies on land at home, that men inclined to purfue agriculture as a trade must go with their capitals into another hemisphere, in order to reap an adequate profit. But cliange this wretched and abominable policy; remove every tax, even to the shadow of one on land; throw all on confumption; proclaim a FREE CORN TRADE; give every man a power of inclosure.—In other words give in the Bourbonnois what you have given in Domingo, and then see if French corn and wool will not return greater profits than American fugar and coffee. The possession of fugar islands, fo rich and prosperous as those of France and England, dazzles the understandings of mankind, who are apt to look only on one fide, where they fee navigation, re-export, commercial profit, and a great circulation: they do not reverse the medal, and see, in the mischievous deviation of capitals from home, agriculture languishing, canals standing still, and roads impassable. They do not balance the culture of Martinique by the landes of Bourdeaux; the tillage of St. Domingo by the deferts of Bretagne; or the wealth of Guadaloupe by the mifery of Sologue. If you purchase the riches that flow from America by the poverty and wretchedness of whole provinces, are you blind enough to think the account a beneficial one? I have used no arguments against the French sugar islands that are not applicable likewise to the English: I hold them to be equal obstacles to the prosperity of both kingdoms; and, as far as experiment of the loss of North America goes, I am juffified by that vaft and important fact—that a country may lofe the monopoly of a distant empire, and rife from the imaginary loss more rich, more powerful, and more prosperous!

If there principles be just, and that they are so is consirined by an immense range of facts, what are we to think of a politician who declares, that the loss of Bengal, or the

Dutch withdrawing their money from our funds, would ruin England *?

Export of the Products of French Agriculture to the Wift-Indies, in 1787.

				- 16,549,000
Manufactured goo Materials, as abov		l workman	hip, 20,549,0 4,000,0	
			livres.	-
Exports	of the foil,	`		26,685,000
Raw materials	of the export	s to Africa,	-	2,000,000
Furniture, clos			is of,	2,000,000
Raw materials				4,000,000
Woods, corda			*	2, 869,coo
Candles,	-			500,000
Legumes,			*	300,000
Flour,				6,944,000
Salted meats,		-	-	971,000
Edibles,				769,0°0
Wine, brandy,	&c.			6,332,000
				livres.
	•		-	

^{*} Confid. for his Richeffer et le Lance. 8vo. 1787. p. 492. In the same spirit is the opinion, that England, before the last war, had attained the maximum of her prosperity, p. 483.

Furniture,

				,
	Young's	TRAVELS IN	FRANCE.	
Furniture, cloaths, & Materials as above,	εc		livres. 10,136,000 2,000,000	
Exports to Africa, Materials, as above,		-	17,000,000	8,136,000
Sundry articles,		 .		7,341,000
Of which 49,947,00	o livres we	ere French pr	oducts and man	73,711,000 nufactures.
		Fisberies.		
o trade is fo beneficial a returns; nor any fo fa from a great navigation	vourable to The Fi	o thofe ideal re <mark>nch</mark> were al	advantages, wh lways very affid	ich are fupp uous in pushi

No trade is fo beneficial as that of fifthing; none in which a given capital makes fuch large returns; nor any fo favourable to those ideal advantages, which are supposed to flow from a great navigation. The French were always very assistance in pushing the progress of their sisters. Supposing them right in the principles of those efforts they have made to become powerful at sea, which, however, is exceedingly questionable, they have certainly acted wifely in endeavouring to extend these nurseries of maritime power.

			Shiba		rons.
Newfoundland and Island fisheries,	1784,	_	328		36,342
	1785,		450		48,631
	1786,		453		51,143
Returns of cod, mackarel, and herrin	ig in 17	84,	were	15,41	4,000lb.
	17	85,		18,15	4,000
	17	86,		19,10	0,000
Quantity of Newfoundland dried cod	, 1784,		230	,516 0	uintaux.
	1785,		241	,85a	
	1786,		272	,398	
Cod exported to Italy and Spain,					5,coolb.
	1	785,	·-	2,41	0,000
	1	786,		4,11	7,000
want in awarfa attributed to the number of					hounties

This great increase attributed to the arret of Sept. 1785, which granted bounties on the export of cod of 5 livres, and of 10 livres per quintal.

Most of the national fisheries are flourishing; they employed in 1785, a
Ships.

Tons, | Ships.

Herrings, &c. - 928 — Tons, Irish from Dunkerque, 62 — 3,742
Newfoundland, 391 — 47,399 Whale, 4 — 970
Dieppe does not in the fishing trade, possessing 556 ships, of 21,57: tons.
The value of the merchandize embarked in 1786, on board the fishing vessels, 3,734,000 livres, and the returns the same year were,

Herrings &c. - 928 — 5,580,000 liv.

Herrings :	and ma	ackarel,	&c.	_	5,589,000 liv.
Cod,			-		13,636,000
Whales,	-			-	53,000
Sundries,		-	-		200,000
					-
					10 5 8 000

19,528,000

Trade

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Trade with the United States.

The commerce which France carries on with the North Americans, is all the reward the reaps from having expended probably fifty millions sterling to secure their freedom. Visions of the depression of the British power, played indeed in the imaginations of the cabinet of Verfailles; but peace was fearcely returned before those airy hopes entirely vanished; every hour proved, that England, by ne emancipation of her colonies, was to far from losing any thing, that she had gained immensely: the detail of this trade will prove, that France was as much deceived in one expectation as in the other.

On an average of three years preceding the French revolution, the im-	livres.
ports from America were	9,600,000
Ditto into the French fugar islands, — — — — —	11,100,000
Exports of France to North America, — — 1,800,000 Ditto from the illes, — — — 6,400,000	20,700,-00
-	8,200,000

12,500,000 Ces républicains, says Mons. Arnould, fe procurent maintenant fur nous, une balance en argent de 7 à 8 millions, avec laquelle ils foudoyent l'industrie Angloise. Voila donc pour la France le nec plus ultra d'un commerce, dont l'espoir au pu contribuer à faire sacrifier quelques centaines de millions et plusieurs générations d'hommes!

Trade to Ruffia.

It is commonly supposed in England, that the trade which France carries on with Russia is very beneficial, in the amount of the balance; and there are French writers also who give the same representation; the part in French navigation will appear in the following statement:

	livers.
Imports from Russia to France in 1788,	 6,871,900
From France to Russia,	 6,108,500

Balance against France, 763,400

This, it is to be noted, concerns French bottoms only; the greatest part of the commerce being carried on in English and Dutch bottoms t.

De l.: Balance du Commerce, 179 tom. i. p. 234.

† The navigation of the Baltic will appear from the following lift of ships which passed the Sound:

_	0	1			
	178,	1785	/1	1784	1745
			11		-
English,	3173	2535	Courlanders,	16	25
Danish,	1691	1789	Dantzickers,	190	161
Swedish,	2.76	21 6	Bremer.ers,	259	176
Pruffians,	1429	1358	Hamburghers,		176
Dutch.	1366	1571	Lubeckers,	75 63	79
Imperial,	167	66	Roftockers,	51	110
Portuguele,	<u> </u>	28	Oldemburghers,	53 8	1 0
Spanish,	19	15	French,	25	20
American,	13	20	1		
Venetian,	Š	4	11	10,897	10,2.6
Ruffian.	118	114	1	-	**********

Cormere Recherches fur les Finances, tom. i. p. 385.

Balance,

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2,700,000

The whole commerce of France with the Baltic is faid to employ fix or feven hundred flips of two hundreds tons *.

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At the per Impo In 17	rts from Inc	Revolution a r	on the Itate nedium of	1785, 178	ade to Indi B6, and 17	a was as follows: 87, 34,700,000 33,300,000
/	,		Merci	bandize.		33,3,0-0
						livres.
India	n manufact	ures,	-		-	26,600,000
	es, tea and c		Moka,	_		6,000,000
Silk,	cotton, ivo	ry, wood	ls,			1,150,000
	a, &c. &c.	_	_			493,000
Drug	rs,		-		-	367,000
						3 4,610,0 00
Expo	rts from Fr	ance at	lame time,			17,400,000 †
Expo	rts to the if	les of ${f F}$ r	ance and l	Bourbon o	n an avera	ge
of	the fame th	ree year	s, —			4,600,000

By the regulation of May 1787, confirmed by the National Affembly, Port Louis, in the Isle of France is made free to foreign ships, by which means it is expected that that port will become an entrepôt for the Indian trade.

Navigation.

There is not much reason for modern readers to be solicitous concerning the commerce or navigation of any country; we may rest assured, that the trading spirit which has seized all nations, will make the governments auxious to promote, as much as possible, whatever interests their commerce, though their agriculture is, at the same moment, in the lowest state of poverty and neglect. All the English authorities I have met with, respecting the navigation of France, are of a very old date; persons who are curious in these speculations, will probably be pleased with the sollowing account:

Ships in France cleared outwards in 1788.

	 11,596 45,446 128,736 190,753 35,227 37,157
8,588	 516,279

[•] Cormeré Recherches fur les Finances, tom. i. p. 362, † De la Balance du Commerce, tom . p. 282, N. B.

M.~B. The total navigation in Europe and America, either by French or foreign flips, amounts to 9,445 flips and 556, 52 tons.

Mous. Arnould in his treatise De la Balance du Commerce, has given an account of the French navigation for the year :787, which does not well accord with this. I insert an extract from it here that the reader may have the opportunity of comparing them.

Table of the Tonnage, French and foreign, employed in the Commerce of France in 1787.

			French.	Feedga.
Europe, the Levas	nt, coast of Barbary, ar	nd United States,	#61,582	532,687
India and China,		W. 174	6,6' 7	
Coalt of Guinea,	ilave trade, Isles of Fra	nce and Bourbon,	45,124	
Sugar Islands,	•		16+,781	-
Whale fithery,			3,720	Francisco (1-10-10-10-10-10-10-10-10-10-10-10-10-10
Cod riftery,	analyses and a second	******	53,400	-
Herring dicto,	Continues of the Contin		,602	A PLYMONTON PROMISED
Mackarel dirto,	Oracide second		5,165	,
Anchovie ditto,	indian-ing salanga		3,062	•
Sundry fitheries,	+ Salphut, Through Hotel		12,320	
Coasting trade,	and the second of the second		1,004,7.9	6,123
			1,459,998	533,810
Total,	adoptivitively.		2,007,661	
			\$10.00 to	

The immense increase of the navigation of England, appears by comparing this account with that first of commercial writers Lord Shessield, for the average of three years preceding 1773.

			Ships.	Tons.	Men.
Foreign trade,		07:3mm/M*V	27 9	335,583	30,771
Coatting trade,		-	3458	219, 56	15,244
Fishing vessels,	C ************************************	75-100	14 1	25,339	6,774
			*******	•	
Totals,			7613 -	5 ⁹ 9,978	52, 789

This is exclusive of Scotland *.

Monf. Arnould, however, affures us, that at the period of the Revolution, France possessed 1000 ships (I do not love such round numbers, which always betray inaccuracy,) of 250 tons, employed in long voyages, and in the cod and whale fisheries t. The whole maritime commerce of exportation employing at the same time 580,000 tons of all nations; of which 152,000 tons were French.

† Balance du Commerce, tom. ii. p. 23. 8vo. 1791.

[.] Observ on the Commerce of the American States, by John Lord Shede . The edit, p. 160.

Cabotage (coasting Trade) the same Year.

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tons. 32,687

6,123

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France inaccueries †. 80,000

Cabo-

French fhips, Foreign ditto,	 	Ships. 22,360 60	_	Tons 997,666 2,742	
		22,420		1,000,408	

N. B. There is no diffinction between fhip and voyage; if a fhip clears out five times a-year, fhe is registered every voyage. The article Sardinia, which appears so large in ships, and so small in tonnage, must, I should suppose, be for a fishery on the coals of that island.

From the tonnage of the ships, as they are called, in the sisheries, it appears, that they are little more than boats: those in the herring sishery, are about 30 tons each—and in the mackarel, little more than 10 tons.

The navigation of England for a year, ending the 30th September, 1787, was,

		Ships.		Tonnage.		Men.
English,	-	8,711		954,729	-	84,532
Scotch,		1,700		133,034		13,443
East Indiamer	n,	54		43,629		5,400
Ireland,	_			60,000		
					-	-
		10,465	-	1,191,392	(Charles	103,375

Without including the West-India trade, or that of the North American colonies, or the African or Asian, the Indiamen excepted.

Progress of the French Commerce *.

		Imports,		Exports.
1716 to 1720, peace,	average per annum,	65,079,000		106,216,00 0
1721 to 1732, peace,	proper.	80,198,000	_	116,765,000
1733 to 1735, war,		76,600,000	_	124,465,00
1736 to 1739, peace,		102,035,000		143,441,000
1740 to 1748, war,	-	112,805,000	-	192,334,000
1749 to 1755, peace,	-	155,555,000	_	257,205,000
1756 to 1763, war,		133,778,000	_	210,899,000
1764 to 1776, peace,		165,161,000	_	309,245,000
1777 to 1783, war,		207,536,000	_	259,782,000
1784 to 1788, peace,		301,727,000	_	354,423,000

It will not be useless to contrast this with the trade of England:

^{*} Monf. Arnould, of the B1 rau de la Balance du Commerce at Paris, afferts, I know not on what au thority, that the English navigation in 1789 amounted to 2,000,000 tond.

VOL. 1V. Z Z Jupperts.

	Imports.		Exports. L.		Imports. L.		Exports.
1717,	6,346,768	_	9,147,700	1771,	12,821,995	-	17,161,116
1725,	7,094,708		11,352,480	1783,	13,122,235	****	15,450,778
1735,	8,160,184	_	13,544,144	1785,	16,279,419	-	16,770,228
1733,	7, 438 , 960	_	12,289,495	1787,	17,804 000		16.869,000
1743,	7,802,353		14,623,653	1788,	18,027,000		7,471,000
1753,	8,627,029		14,264,614	17 9,	17,821,000	_	19,340,0.0
1763,	11,665,036	_	16,160,181	1790,	19,130,000		20,120,000

As the balance, or ideas of a balance, are a good deal vifionary, we shall find, by adding the two columns together, that the trade of England has fuffered no decline, but on the contrary, is greater than ever; it deferves attention, however, that the progress of it has not been nearly so rapid as that of France, whose commerce, in the laft period, is 3! times as great as it was in the first; whereas ours has in the same period not much more than doubled. The French trade has almost doubled fince the peace of 17/3, but ours has increased not near so much. Now it is observable, that the improvements, which in their aggregate mark national profperity, have, in this period of twenty-nine years, been abundantly more active in England than in France. which affords a pretty flrong proof that those improvements, and that prosperity, depend on fomething elfe than foreign commerce; and as the force of this argument is drawn directly from facts, and not at all from theory or opinion, it ought to check that blind rage for commerce, which has done more mischief to Europe, perhaps, than all other evils taken together. We find, that trade has made an immense progrefs in France; and it is elfewhere flown, that agriculture has made little or none; on the contrary, agriculture has experienced a great increase in England, though very feldom favoured by government, but commerce an inferior one; unite this with the vall fuperiority of the latter in national prosperity, and furely the lesson assorted by fuch facts needs no comment.

Of the Premiums for the Encouragement of Commerce in France.

The French administration has long been insected with that commercial spirit which is at present the disgrace of all the cabinets of Europe A totally sake estimate that has been made of England, has been the origin of it, and the effect has been an almost universal neglect of agriculture.

The premiums paid in France for encouraging their commerce are the following, and the amount for a year, ending the 1st of May 1789, is added:

and the amount for a jear, coming the tree of the jear, to mean the	liv.
Expence of transporting dry cod to the American ifles, and to various	
foreign countries, at the rate of 5, 10, and 12 livres per quintal, by the	
arret of 18th Sept. 17/5, and 11th Feb. 1787, -	547,000
Bounty payable on the departure of ships for the coast of Guinea, and	•
for Mozambique, at the rate of 40 liv. per ton, by the arrets of 26th Oct.	
1784, &c. —	1,950,000
Bounty on the negroes transported into the Colonies at the rate of 60 to	
100 live a-head, by the arret of 20th Oct. 1781, and of 160 live and 200	
liv. by that of the 10th Sept. 1706,	865,000

Bounty

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Bounty

Bounty for encouraging the navigation in the North Sea, at the rate of 3, 4, 6, and to liv. per ton, by the arret of 25th Sept. Bounty on the export of refined fugar 4 liv. the quintal, by the arret	4,000
of 26th May 1786, — — —	108,000
Encouragements given to seventeen manufactures, 39,000 7	- 100,000
Bounty of 4 liv. per 1000lb. of cast iron, granted to the soundries of Mont Cenis in Bourgogne, Bounty granted to the people of Nantuket established at Dunkerque	18,000
for the whale fiftery, at 50 liv. per ton of oil,	170,000
To the coal mines of the kingdom, — — —	100,000
	*3,862,000

I hope it does not at this time of day want much explanation, or many observations on this contemptible catalogue of the commercial merit of the old government of France. The fisheries and sugar islands, if we are to believe the French writers, are the most valuable and the most important articles of the French commerce.—How can this be, if they want these paltry bounties to assist them? St. Domingo is said in France to be the richest and most valuable colony there is in the world; I believe the fact; but if we were to consider only a premium on supplying it with slaves, we should be apt to imagine it a poor fickly settlement, scarcely able to support itself. If cultivation is vigorous there, it demands slaves without any bounty; if it is not vigorous, no bounty will make it so; but the object, real or pretended, of bounties, is to induce people to invest capitals in certain employments, which they would not so invest without such bounties. This is to profess giving bounties to the investment of capitals in American agriculture, rather than in that of France; the tendency is clear; but in this age it surely becomes a question, whether the lander of Bretagne and Anjou would not be as deserving of such a bounty as the forests of Hispaniola?

To remark on all these premiums is unnecessary; it is sufficient to observe, that all, except that for coal, is absurd, and that that is so given as to be useless.

Of the Treaty of Commerce between Great Britain and France.

This celebrated measure was fo thoroughly debated in England, that I shall not go again over ground trodden almost bare; but, with attention chiefly to brevity, give some French authorities upon it, which are but little known in England.

There are in most of the great commercial towns in France, societies of merchants and manufacturers, known under the title of Chambre du Commèrce; these gentlemen affociate for the purpose of giving information to the ministry and commercial question upon which their opinion is demanded, and for other purposes that concern the trading interests of their respective towns. The Chambre du Commerce de Normandie, on occasion of this treaty, printed and dispersed (it was not fold) a pamphlet entitled, Obfervations fur le Traite de Commerce entre la France & L'Angle, tre.

In this work they inform their readers, that in order to draw a fair comparison between the advantages and disadvantages of the two kingdoms in manufactures, they

^{*} Compte Général, 1789 p. 186.

had deputed two merchants of Rouen, fufficiently understanding in the fabrics of Normandy, and who spoke English, to take a journey to the manufacturing parts of England, in order to acquire authentic intelligence, and upon their return they were defired to make a similar tour through the manufactures of Normandy, that they might possess themselves of the knowledge requisite for a fair comparison; and from their reports, as well as from other materials, the Chambre du Commerce speak in their obobservations:

"But while we are embraking in the undertaking, the alarm of our commerce increases every day, and becomes a real evil by a most active sale of every article of English manufacture, which can enter into competition with our fabrics. There is not an article of habitual confumption with which England has not filled all the magazines of France, and particularly those of this province, and in the greatest number of these articles the English have a victorious preponderance. It is afflicting to see the manufacturers who suffer by this rivalship, already distances fuccessively the number of their workmen, and important fabrics yielding in another manner to the same scourge, by English goods being substituted in the sale for French ones; receiving a preparation agreeable to the consumption, named, marked, and sold as French, to the infinite prejudice of the national industry.

"The Chamber is apprehensive of the immediate effect of the introduction of English cottons, whereof the perfection of the preparation, the merit of the spinning, united with their cheapness, has already procured an immense sale. A coup d'œil upon the solio 5 of the table of patterns of Manchester, and the Fauxbourg St. Sever, at Rouen, will demonstrate the disadvantages of the latter.

"Our potteries cannot escape a notable prejudice; the low price of coals in England enables the English to underfell us in these articles 25 per cent.; considerable cargoes have already arrived at Rouen.

"The 36,000 dozen pairs of flockings and caps of cotton, made in the generality, are the produce of 1200 looms. Within three months it is calculated, that at Rouen alone, more than one hundred have flopped. The merchants have made provision of English goods, for more than 30,000 dozen pairs of flockings and caps have already been imported.

"Manchester is the Rouen of England, the immense sabrication of cotton stuffs, the industry of the manufacturers, their activity, the resource of their mechanical inventions, enable them to underfell us from 10 to 15 per cent. Every circumstance of the fabric proves the riches of the master manufacturers, and the solicitude of government for supporting and savouring their industry.

In general their stuffs and their linens are siner, of a more equal spinning, and more beautiful than ours; nevertheless they are at a lower price, which proves the importance of their machines for carding and spinning the cotton in a perfect and expeditious manner. By the aid of these united means, they slat or themselves at Manchester with equalling the mussins of India, yet the highest price of those interest wrought does not exceed 8s. a yard, but the fabric is so considerable, that they are not afraid to value it at 500,000 liv. a week; however one may be permitted to doubt of this, one must be amazed (effragé) at the immense for which the English have procured for this article, and the more so, as we have the affair of, that the magazines of the company contained, within a few months, to the value of 80,000,000 livres, in India mussins.

"We do not know that the English have in their fabrics of linen any other inventions for simplifying the labour than the flying shutle and the flax-mill, because the fibres or-

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fibres of fax are not adapted the application of machines for fpinning and carding; we are, however, affured that they have found means, by water-mills, to weave many pieces of linen at the fame time and in the fame loom.

 The price of coals in the preparation of cotton is of fome importance. The inhabitants of Manchester pay for coal only 9s. a ton, of 2000lb. (French) but at Rouen

it is 47 to 50 liv. the ton. "The English are forced to render justice to the cloths of Louviers, as well as to those of Abbeville and Sedan. They cannot discubble that they think them more fost than their own, and that the colours are more lively and more feducing, but we cannot hope to fell them in Eugland. The English, whether through a spirit of patriotism, or by the real agreement of their kind of fabric to the nature of their climate, prefer their cloths extremely fulled, and of colours very fembre, because the finoak of their coal fires, combined with the humidity of the atmosphere, depositing a greafy dust, might eafily affect our colours to lively, but of little folidity; however it may be, the competition at prefent of the English in France cannot be very hurtful to the manu actures of Louviers, Sedan, and Abbeville; but as the English import as well as we the wools of Spain, they may certainly attain the beauty of the cloths of Louviers.

"The fabrics of Elbouf, however prosperous, have not the same resources as the English ones of the same kind, excellent national wools proper for their fabric at a low price. We calculate that the ordinary cloths of five-fourths breadth, and 15 or 16 livres price per auln, can fearcely withfland the competition of the cloths of Leeds, called Briftols, which coft only 11 liv. the auln.

"The cloths, ratines, espagnolettes, flannels, and blankets of Darnetal, have most of them a superiority over many similar English fabrics; but the low price of these last will render their competition fatal. We cannot too often recur to the advantages which the English possess over all the woollens of France, which are wrought like those of Darnetal, with the wools of France. The high price of our wool, and its inferiority in quality * to that of England is fuch, that this inequality alone ought to have induced the rejection of the treaty of commerce on the terms upon which it has passed. The manufacturers of Darnetal, Rouen, Beauvais, Amiens, Lille, and Rheims, may find it their interest to import English fabrics before they have received the last hand, which they can give cheaper than in England, and thus appropriate to themselves a profit in the cheapness and beauty of the English wools, by underselling the similar fabrics entirely French.

"The English ratines cannot support the parallel with those of Andely, where also good kerfeymeres are made in imitation of the English, but quite unable to stand against them. Before the treaty the English kerseymeres came contraband to France, and were therefore dear, but now all the magazines of the kingdom regorge with them, for at the same time that they are cheaper, they are in quality more perfect, of a more equal grain, and lefs fubject to greafe.

"The manufacture of cloths at Vire has fallen from 26,000 pieces per annum to Sooc. During the war they had an export to North America, but on the peace, the cloths of Leeds prefented themselves with a victorious superiority, and will hold it till we have perfected the breed of our theep, and obtained fleeces of a greater length and

[.] The manufacturers of France possess no such iniquitous monopoly against the sarmer, as makes the difgrace and mitchief of English agriculture

"In regard to the stuss of wool, called serges, molletons, slaunels, Leadeins, fatins, burats, cambots, baracans, calmandes, étamines, kerseymeres, sagathic, éta, which were surnished both to France and foreigners by Darnetal, Annale, Beauvais, Amiens, Lille, Rhein s, and le Mans, they must fink under the competition of the similar manufactures of England. During the late war the Spaniards gave considerable employment in these articles to the manufactures of Amiens, Lille, and Annale. On the sirst report of a peace, they not only suspended their commissions, but even gave counter orders for what were already bespoke, the English having offered the same stuss 20 p.r. cent. cheaper than we could afford them.

"We may observe in fine, upon the conditions of the treaty, that the English have contrived to leave excessive duties upon all the articles, the trade of which would have offered advantages for France, and to prohibit the most interesting, to admit those whereof the reciprocity would be wholly to their own advantage; and to favour in a manner almost exclusively, in their importations, such as are made in English bottoms; circumstances which, united with the famous act of navigation, explain, in a great measure the disproportion which exists between the number of English and French vessels in the commerce of the two nations since the treaty, which is at least twenty to

one.

"The opinion we develope upon this treaty is general, and founded on a fimple reflection, that France furnishes twenty-four millions of confumers against eight mil-

lions which England offers in return ..

"The fituation of France cannot have been confidered in the prefent circumstances; at the same time that the consumption of its inhabitants, first, that natural and necessary aliment of national industry becomes a tribute to England, who has carried her fabrics to the highest degree of perfection; the French manufacturers and workmen, discouraged without labour, and without bread, may offer an easy conquest to Spain, who, more enlightened at prefent upon the real means of increating her prosperity and her glory, developes with energy the defire of augmenting her population, of extending and perfecting her agriculture, and of acquiring the industry that shall fulfice for her wants, and exclude as much as shall be possible from her markets objects of foreign fabrication. We are assured that the workmen in the southern provinces pass successively into the different manufactures which are established; an emigration, which cannot but increase by the effects of the treaty of commerce with England."

The Chamber of Commerce in the fame memoir declare, that the English had not augmented their contemption of French wines in confequence of the treaty. And they dwell repeatedly on the superior wealth of the English manufillurers to that of the French ones, the influence of which, in the competition of every fabric, they feel

decifively.

The French ministry, the Archbishop of Sens at their head, to remove the impression which they feared would follow the preceding memorial of the merchants and manufacturers of Normandy, emptoyed the celebrated *economiste* Monf. du Pont, editor of the *Fphemerides du Citoyen*, a periodical work, printed 1767—1776, and since elected for Nemours into the National Assembly, to answer it, which he did in detail, and with ability: the following extracts will show the arguments in favour of the treaty.

Relative to the wine trade, your information has not been exact. I am certain that it has been confiderably augmented. The difference between the duties

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really † | what in England upon the wines of Portugal and France was 34% of our money the bottle; it is at present but 5/. 8 den. in spite of the proportional diminution made upon the wines of Portugal, an approximation of which must be very favourable to us. Authentic accounts of the cultom-house at London have been sent to the department of foreign affairs, flating the quantity of French wines imported into that fingle city, and it rifes from the month of May to that of December of the last year (1777) to 6000 tons of four bariques each. In preceding years, in the fame space of time, the legal importation has amounted only to 400 tons, and the contraband import was estimated at about an equality. The augmentation, therefore, for the city of London, is at leaft 5000 tons, or 20,000 bariques, which, at 1200 livres amount to 6,000,000 livres. The accounts of the balance of commerce for nine years preceding the latt war mark 1500 tons as the mean export of our wines to England, Scotland, and Ireland. In 1734, that export did not exced 2.00 tons. The city of London has therefore imported in the eight last months of 737 four times more than the three kingdoms formerly imported in the course of a whole year.

"The fale of vinegars, brandy, oil, foap, dried fruits, preferves, cambric, linens, and millacry, has much augmented. In particular, cambric and linens have doubled. " But this is no reason why the ministry should not, on one hand, exert themfelves with all activity to oblige the Linglish to adhere to the terms of the treaty (which

they have deranged by their tarills and regulations of their customs); and, on the other, to favour the national industry, particularly that of the provinces of Picardy, Normandy, and Champagne, for whom, fince the treaty, the competition of the English has certainly been very mischievous (trés ficheuse).

"There are five branches of industry in which the English have over us at prefent in fome respects an advantage more or less folid; in cotton stuffs, in small woollens,

in pottery, in Feel, and in Father.

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"In regard to cotton, Monf. Burneville is in possission of a machine, invented by his uncle, which fpins thread of a degree of fineness till now unknown; even to 300,000 au'ns of thread from a pound of cotton. The fineff muffins of Afia are made with threads of 140,000 aulis to the pound. The government, after three years confideration, has at last determined on the report of M. Definarest to purch de this machine, and to diffribute many of them among our manufactures.

It is inconceivable that we have not a fuperiority over the English in a We have the raw material, and even fell to our rivals the greater part of the first use. We have provisions and labour cheap r than they have *. It is on the second which we want, or rather we do not want them, for we have the u is we have artiffs capable of perfecting them; we have already the foreign

can give prizes, and we have aca lemi-s to judge †.

" As to the woollen fabries, we have nothing to fear of competition in fine cloths, ratines, efpagnollettes, molletons, and caps made of Spanish wool; or in which it enters for the greater part. Our fabrication of this fort is superior to that of the English; our stuffs are softer and more durable, and our dyeing more beautiful. We can imitate at will, all the fombre colours of the English facrice, but they cannot copy any of our lively colours, and especially our scarlet.

* Not fo; a man is fed cheaper in France, living badly, but provitions are not cheaper, and I.bour is really dearer, though nominally cheaper.

† I mill finde at academies being named among the manufacturing advantages of I rance: I wonder what academies have done for the manufactures of England.

"In the middling class of woollens, which comprizes the tricots and small stuffs, we have a marked inferiority. The wools of which these are made are with us less fine, less brilliant, and higher priced. But this evil is not without a remedy.

"Of the next manufacture it may be observed, that the English potteries have been imported at all times into Loraine, without paying any duties, and yet that province is

full of manufactures of pottery which prosper."

Relative to the steel manufactures, Mons. du Pont cites the following case: "Mons. Dosser, after having been a long time at Clignancourt occupied for our English magazines to make bijoux of steel, which have been fold for English, has been taken under the protection of government, who have furnished him with the means of carrying on business. At present established in the inclosure of the Quinze Vingts, he there fabricates, with at least as great perfection as in England, and at a lower price by 30 per cent. all the beautiful works in steel, watch chains, swords, &c. &c. &c.

Monf. du Pont then insists at length on the great import of English manufactures, which took place clandestinely, not only from England directly, but by Flanders, Holland, Germany, and Liege, which it was found impossible to prevent, and contends, that converting such import to a legal one, to the profits of the state, was an object of no slight importance.

"It is some years since the manufacturers of Sedan, and after its example those of Louviers, Abbeville, and of Elbœus, have raised the prices of their cloths 25 per cent. and not without some reason, imagining, under the influence of a spirit of monopoly, to benefit the undertakers of those fabrics. But to whatever reason it might be assigned, certain it is, that German cloths, which never came into the kingdom before, have, fince this rise of price, found a considerable sale in France, to the prejudice of the national manufactures; the treaty of commerce having been made at the time of the evil being felt, the whole effect has been laid, without much reason, to the operations of that treaty."

M. Du Pont in like manner examines the flate of the filk manufacture, which he flews to be at Lyons in the lowest flate of misery and distress, owing to the war in the north of Europe absorbing those expences which in peace were otherwise employed; to the fuccessful exertions in Spain for increasing the fabrics of that country; and to the failure of the crop of filk; yet while the declension of that manufacture had thus no shadow of connection with the treaty of commerce, yet happening at the same time, the evil, like all the others, has been attributed to its influence.

"At all events, the treaty of commerce, fuch as it is, is perhaps the only guarantee of peace between the two empires. I have the ftrongelt reason to believe, that its perfpective has haltened the concusion a year or two, and we have thus spared 400,000,000 livres of expence; the imposts which would have been necessary to pay the interest, the loss of blood, and the frightful chances which every war entrains in its suite. It is more than probable, that without it, we should for fix months past have been engage.

[•] The extravagance of this ridiculous affertion, carries in itself its own reply: if this cheapness arises from government premiums or affiltance, it is a farce, and absolutely beyond any fair conclusion: if it is not from facts offiltance. I demand how it happens that this manufacturer has been established by government? A man who is not able to citablish his own fabric, able to under-work, and at Par's too! the Eng-Estimates appeared by the contraction of Commerce in Normandy are truly weak in their arguments in favour of great capitals in the hands of matter manufacturers, and the fact on the contrary must be admitted, that no capital at all will affect the business just as well. What satisfaction is here given to prove that the whole of this business was not, as in many other cases, a piece of charletaineric in government? To please and delade the people by a cheapness gained by government paying the piper? Has the business taken root? Has it become a national object? or is it a Paris toy?

ging in hoshibities, the term of which would have been impossible to foresee. When France and England remain neuter and united, no war can be durable in Europe; for though other powers have cannons, foldiers, and bayonets, yet none of them have refources to support a war of any length; not even those who reckon upon a treasure, which would be dissipated in two campaigns at most. The only solid treasure is a good agriculture and an industrious people. The repose of the world, and above all our own, holds therefore almost folely by this treaty; which citizens, zealous without doubt, but certainly too little enlightened, would wish to see annihilated.

The argument which has been drawn from the population of the two kingdoms, founded on France containing twenty four millions, and England eight millions, is not ft. France contains nearly twenty eight millions, and the three British kingdoms eleven; but the whole reasoning is a sophism, founded upon ignorance of the riches of the two nations. It is not on population that we are to calculate the means of buying and felling, of paying and being paid. Unhappily the greatest difference found between the two empires is not in their manufactures; that of their agriculture and crops is much more confiderable. The annual crops of England have been calculated with care at 2,235,000,000 liv. (97,781,25cl.) adding those of Scotland and Ireland, they cannot amount to less than 3,000,000,000 liv. (131,250,000l.) Those of France, calculated with great fagacity, after certain cases in some points, and on conjectures combined from all forts of views in others, have been valued at the lowest at 3,200,000,000 liv. and at the highest at 4,000,000,000 liv. (175,000,000l.) We have therefore, at the most, but a fourth more crop than England; but we have to fubfift a population two and an half times greater. Before we trade abroad we must live. Retrench from three milliards the eafy subfiltence of eleven millions of people; retrench from four milliards the subfiftence, a little more difficult, of twenty-eight millions of people, and you will foon fee that it is not the nation of twenty-eight millions that furnishes the best market for foreign commerce, and confequently for luxury, which can only be paid for with a fuperfluity.

The experience of all times has proved, that nations successively rival each other in manufactures. Spain debauches and carries off our workmen in filk; but she cannot take from us our cultivators, the nature of our foil, our happy exposition, nor the privileged products which we possess exclusively. It is therefore upon the products of cultivation that must be founded, in the most folid manner, the prosperity and commerce of a great empire.

And even as to fabrics, you see by the example of the past, that excluding competition has left ours in an inferiority of which you complain. It cannot be necessary to prove to you, that the best method of raising the industry of a nation to a par with its neighbours, is by establishing such a communication as shall place unceasingly models and objects of emulation under the eyes of such as are inferior.

It is clear that by referving to the manufacturers of a nation the exclusive privilege of fupplying it, we destroy among them a great part of the principle of that activity which ought to perfect their industry. Believing themselves sure of purchasers, and sure also of fixing their own price, they neglect, with all proprietors of exclusive privileges, to seek the means of fabrication the most economical, and those which would render their labour the most perfect.

Monf. du Pont enters into a detail of the course of exchange through fifty seven pages, from which be deduces the fact, that the balance upon the trade, in consequence of the treaty, was in favour of France: from May 1787 to March 1788, he gives a table of exchanges, divided into three epochs; 1. From the 1st of January 1785, to the re-coin-

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age at the French mint in October; 2. From the recoinage to the treaty of commerce, from 1st November 1785 to last of April 1787; 3. From the treaty to the time of his writing, i. e. from 1st May 1787 to last of March 1788.

First Epoch.

Par of exchange counted on filver $28\frac{1.6.4.5}{1.7.8}\frac{1.7}{2.0.7}$, counted on gold 30.

January,		29 - 13 May,			August,	•	2814
February,	••	28 $\frac{13}{16}$ June,	•	28 1 1 6	September,	-	29 1/5
March,	-	28 3 July,	•	2811	October,	•	29 TT
April,	-	28 35					

From January to September 1784, exchange was at 30 and 31, and fell to 29, at which rate it was about 3 per cent. against France; but it fell in June to $28\frac{1}{7}$, which was a loss of 4 per cent.; and in August the loss was at the height, or $4\frac{1}{7}$ per cent. which sunk in October to $2\frac{1}{7}$ per cent.

Second Epoch.

Par of exchange by the alteration in the French money counted on gold $28\frac{150565}{1776896}$, and on filver $28\frac{1004}{12768}\frac{1}{127}\frac{1}{12}$.

Nov.		2975	May,	-	29 1 7	Nov.		29 77
Dec.	-	29,5	June,	-	29 1		-	29 77
Jan.	-		July,	•		1787Jan.	-	29 5
Feb.	•	29 72	Aug.		29 1 3	Feb.	-	29 -t
March,	-	2911	Sept.	-	2911	March,	•	29 1 3
April,	•	29,7	Oà.	-	27 1 6		•	29 17

Upon this epoch, Monf. du Pont has a long observation concerning a supposed transport of old louis d'or from England to the French mint, which the chamber of commerce, in their reply, justly rejects.

Third Epoch.

Par as before.

1787 May	•	30 1 6 29 1 7	Sept.		2917	1788 Jan.	•	2911
June	•	2917	Oâ.	-	2950	Feb.	-	29
July	-	29 1	Nov.	-	293.9	March		2900
Aug.	-	2117	Dec.		29.2			

During these eleven months, the mean rate has been $29\frac{4176}{7176}$, or about $2\frac{7}{7}$, per centi in favour of France.

By the accounts of the Bureau General de la Balance du Commerce, the imports of English goods in France for the eight last months of 1787, amounted to 35,294,000 liv., and the export of French goods to England during the same time to 26,276,000 liv., a difference which Mons. du Pont attempts to convert into the favour of France, upon grounds not at all satisfactory.

The

The Chamber of Commerce, in their reply, affert, respecting the navigation employed, that from May to December 1787, there entered the ports of France 1030 English ships of 68,686 tons, whereas, in the same trade, there were only 170 French ships of 5570 tons.

In the same reply, the Chamber reject the reasonings of M. du Pont upon the course of exchange, and insist that it was affected by collateral changes, and by transactions not commercial.

I shall lay before the reader the result of the treaty, both according to the English custom-house, and also by the registers of the Bureau de la Balance du Commerce at Paris; which, I should however remark, is beyond all comparison more accurate in its estimations; and whenever it is a question between the authority of the two in opposition to each other, I should not hesitate a moment in preferring the French authority; indeed it is certain, that in many articles the valuation attached to some denominations is as old as the reign of Charles II. though the real value is known to have quintupled.

English Account.

Export of British Manufactures to France.

		£.	s.	d.			L.	s.	ď.
1769,	-	£. 83,21 3	18	4	1784,	-	93,763		
1770,	•	93,231	7	5	1785,		244,807	19	5
1771,	-	85,951	2	6	1786,	•	343,707	11	10
1772,	-	79,534	13	7	1787,	•	713,446	14	11
1773,	-	95,370	13	1	1788,		884,100	7	I
1774,	•	85,685	13	2	1789,	-	830,377	17	0

The rife in the years 1785 and 1786, may be attributed to the rage for every thing English, which, I believe, was then pretty much at its height; the moment the honour of the nation was secured by wiping off the disgraces of the war of 1756, by the success of the American one, the predilection for every thing English spread rapidly. In order to shew the proportion which our export of manufactures to France bears to our exports to all the world, I shall insert the total account by the same authority.

		£.	₹.	d	1		£.	5.	d.
1786,	**	11,830,194	19	7	1789,	-	13,779,740	18	9
1787,	-	12,053,900	3	5	1790,	-	14,922,000	0	0
1758,	-	12,724,719	16	9			•		

We know that all these sums are incorrect; but we may suppose the incorrectness as great one year as another, and that therefore the comparison of one year with another may be tolerably exact. The following French accounts have been taken with fingular attention; and as duties have been levied on every article, the amount may be more, but cannot be less.

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French Account.

Imports	from	England	into	France.	in	1788.
	,				,	-,

	liv.
Woods, coal, and raw materials, of which coal near 6,000,000 liv.	16,553,400
Other raw materials, not the direct product of the earth,	2,246,500
Manufactured goods, — — — —	19,101,900
Manufactured goods from foreign industry —	7,700,900
Liquors (boiffons)	271,000
Eatables (comestibles) fuch as falt meat, butter, cheese, corn, &c.	9,992,000
Drugs, — — — —	1,995,900
Groceries, — — — —	1,026,900
Cattle and horses, — — — — —	702,800
Tobacco, — — —	843,100
Various articles, — — — —	187,200
West India cotton, and West India goods, none,	•

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Exports from France to England, in 1788.

Exports j	Tom Trance	w Englana,	3 <i>n</i> 1,00.	
				liv,
Woods, coa', and raw n				534,100
Other raw materials, no	t the direct	product of t	he earth,	035,200
Manufactured French			-	4,-86,200
Manufactured goods fro	m foreign i	nduftry,		2,015,100
Liquors, —				13,492,200
Eatables, —		-	•	2,215,400
Drugs, —	-			759,100
Groceries, none,				
Cattle and horfes,	-			181,700
Tobacco, -				733,900
Various articles,		_		107,400
West India cotton,	-		-	4,297,300
West India goods,	***************************************	-	******	641,100
				-
				30,458 ,7 00

Explanation.—All manufactured goods, both English and foreign, imported by the English merchants have been under rated about one-twelfth, which will add 3,238,800 liv. The French exports must also be increased for sinuggling, &c. &c.; so that there is great reason to think the real account between the two nations may be thus stated:

Exports from England to France France to England	,	liv. 63 ,327, 600 3 3, 847,470
Balance against France,	p=0 0mm	29,480,130

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Total Exports of England to France	e in 1789,		liv. 58,000,000
Ditto of English manufactures in	1787,		33,000,000
	1788,	-	27,000,000
	1789,		23,000,000

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Hence it appears, that the two custom-houses do not differ essentially in their accounts.

Before I offer any observations on these accounts, I shall insert a few notes I made at some considerable towns of the intelligence I received personally.

1787.—ABBEVILLE.—In discourse upon the effect of the new treaty of commerce with England, they extressed great apprehensions that it would prove extremely detrimental to their manufactures. I urged their cheap labour and provisions, and the encouragement their government was always ready to give to manufactures: they said, that for their government nothing was to be depended upon; if their councils had understood the manufactures of the kingdom, they certainly would not have made the treaty upon such terms; that there were intelligent persons in their town who had been in England, and who were clearly of opinion, that the similar English fabrics were some cheaper and others better, which, aided by fashion in France, would give them a great advantage; that provisions were by no means cheap at Abbeville, and the workmen in several branches of their fabrics were paid nearly as much as in England, without doing the work equally well, at least this was the opinion of some very good judges; and lastly, that all Abbeville are of this opinion.

AMIENS.—I had here fome conversation to the same purport as at Abbeville; the whole town I was assured had been alarmed from the sirst rumour of the terms on which the treaty of commerce had been concluded; they are well convinced that they cannot in any one instance, as they assert, stand the competition of English goods. On my asking what reason they had for such an idea, the person I conversed with went into a warehouse, and bringing a piece of stuff and another of slannel, they were, he said English, and from the price at which they were gotten before the treaty, he drew the conclusion; he was also, he said, well informed of the prices in England. In the cotton fabric, he said, the superiority was yet greater; in a word, that Amiens would be ruined, and that on this point there was but one opinion.

The manufacturers of all countries are full of these apprehensions, which usually prove extremely groundless. In all probability the effect would be as expected, if a counter stream of emulation and industry did not work against it. The introduction of English fabrics may be hurtful for a time, but in the long run may be beneficial, by spurring up the French manufacturers to greater exertions and to a keener industry.

BOURDEAUX.—The intercourse between this port and England has been increased a great deal since the treaty. Warehouses of English goods are opened. The article which has hitherto sold the best, and quickest, is that of the Staffordshire potteries; the quantities of these which have been fold is very great: but the hardware sent hither has been found so dear, that it could not be sold in competition with French and German, except in a very sew articles. Of sallery there are several shops opened that have sold largely. Beer has been tried, but would not do; the Dutch is still preferred for the West Indies as cheaper; that of England has been sold at 90 livres the barique, of 250 French bottles, and some of it arrived so bad as not to be merchantable. Wine

has increased in its export to England, but not so much as was expected; before the treaty it was eight thousand tonneaux a year, and it has not risen to twelve thousand; however the course of exchange is against England 4th, and wine, owing to the present failure of the crop, has increased in price 50 per cent. Brandy has also increased.

The English take only the two sirst qualities of wines—or, rather they are supposed to do so; for their merchants established here mix and work the wine sent in such a manner, that the real quality of it is unknown: this is the account given us. Those two sirst sorts are now at 201 to 221, a barique, which is two hundred and fifty French bottles, and two hundred and seventy English ones. The other qualities are fold from 151 to 181, port charges, cask and shipping included; freight to London is 50s. a ton, besides 15 per cent. primage, average, &c. The French duty is 28 livres the tonneau, which has been lowered to 5 livres 55 from last October to the sirst of January next, a regulation which it is said will not take place longer.

BEAUVAIS.—The opinion universal among the manusacturers here is, that the English sabrics are so superior in cheapness, from the wise policy of the encouragements given by government, that those of Beauvais, should they come in competition, must sink; so much of the sabrics here as are for the consumption of the lower people might perhaps stand by it, but not any others; and they think that the most mischievous war

would not have been so injurious to France, as this most pernicious treaty.

Lilie.—I no where met with more violence of fentiment, relative to this treaty, than here; the manufacturers will not speek of it with any patience; they wish for nothing but a war; they may be said to pray for one, as the only means of escaping that ideal ruin, which they are all sure must flow from the influx of English sabries to rival theirown. This opinion struck me as a most extraordinary insatuation; for in the examination which took place at the bars of our Houses of Lords and Commons, this is precisely the town whose fabrics were represented as dangerously rivalling our own, particularly the camblets of Norwich; and here we find exactly the counter part of those apprehensions. Norwich considers Lille as the most dreadful rival, and Lille regards Norwich as so formidable to her industry, that war and bloodshed would be preferable to such a competition. Such sacts ought to be useful to a politician; he will regard these jealousse, wherever sound, either as impertinence or knavery, and pay no attention whatever to the hopes, sears, jealousses, or alarms, which the love of monopoly always inspires, which are usually salse, and always mischievous to the national interests, equally of every country.

NAOTES.—In conversation here on this treaty with some very respectable commercial gentlemen, they were loud against it; insisted that France sent no fabrics whatever to England in consequence of it, not to the amount of a single sol; some goes, and the same went before the treaty; and that England has not imported more wine or brandy than usual, or at least to a very small amount; we know at present that this was not

correct.

ROUEN.—The quantity of merchandize of all forts that has been imported here from England fince the treaty, is very confiderable, especially Staffordshire hardware, and cotton fabrics, and several English houses have been established. They consider

the treaty here as highly detrimental to all the manufactures of Normandie.

I am better fatisfied with the real fact than if it were, as the Chamber of Commerce of Normandie imagined, much more in favour of England; for as the benefit is more likely to laft, fo the treaty is more likely to be renewed; and confequently peace between the two kingdoms to be more durable. The balance of the manufacturing account does not exceed 14 millions, which is very far short of the French ideas, and must,

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in the nature of things, lessen. The 18 millions of raw materials and coals, instead of being an import hurtful to the interests of French industry, is beneficial to it; and they themselves wisely consider it as such, and lamented the old duties on the import of English coal, afferting, that there ought to be none at all. Here are 10 millions of imports, and a balance of eight in direct objects of agriculture, as corn and meat. If a people will manage their agriculture in fuch a preposterous manner, as not to be able to feed themselves, they should esteem themselves highly obliged to any neighbour that will do it for them. Raw materials, including drugs, with cattle, corn, and horses, very nearly account for the whole balance, great as it is, that is paid on the total to England; and as such objects are as much for the advantage of France to import, as for the benefit of England to export, the whole trade must, both in extent and balance, be deemed equally reciprocal, and of course equally tending to advance the prosperity of each kingdom. There is, however, a circumstance in which matters are very far from being reciprocal, and that is, in payments. The French are paid for their goods, whatever these may be, according to agreement; but that is very far from being the case with the complaints against the mode of dealing in France, not only in respect of payment, but also of want of confidence, fince their goods, fairly executed, according to patterns agreed on, are feldom received without dispute or deduction: and while they chearfully do justice to the punctuality of the Americans, Germans, &c. they put very little value on the French trade, fpeaking in general. It is the fame with Birmingham, whose merchants and manufacturers affert strenuously, that the commercial treaty has been of no service to their town; the French having taken as largely their goods by contraband, before the treaty, as at present, through a different channel; with this change, that the Dutch, Germans, and Flemmings, with whom they dealt before, paid better than the French. circumflances are great deductions from the apparent merit of the treaty, which cannot be fairly ellimated, unless we could know the amount of our exports fent out clandestinely before it was concluded. The manufacturers are certainly the best judges; and they unite, with one voice, throughout the kingdom, either to condemn it, or at least to affert its having been a mere transfer from one channel to another, and not an increase. The benefit of it, however, as a political measure, which tends to establish a friendship and connection between the two countries, cannot be called in question with any propriety; for the mere chance of its being productive of peace, is of more confequence than ten fuch balances, as appears on the foot of the above mentioned account.

CHAP. XIX.—Of the Manufactures of France.

Picardis—Abbeville.—THE famous manufacture of Varrobais has been described in all dictionaries of commerce and fimilar works; I shall therefore only observe, that the buildings are very large, and all the conveniencies seem to be as complete as expence could make them: the fabric of broad cloths is here carried on upon the account of the matter of the establishment, from the back of the sheep to the last hand that is given. They affert, that all the wool used is Spanish, but this must be received with some degree of qualification. They say that one thousand five hundred hands are employed, of which two hundred and sifty are weavers; but they have experienced a great declension since the establishment of the sabric at Louviers, in Normandie. They have several spinning jennies, by which one girl does the business of forty-six spinners.

An establishment of this kind, with all the circumstances which every one knows attended it, is certainly a very noble monument of the true splendour of that celebrated

reign to which Monf. de Voltaire juftly enough gave the title of Age; but I have great doubts whether it is possible to carry on a manufacture to the best advantage, by thus concentrating, in one establishment, all the various branches that are essential to the completion of the fabric. The division of labour is thus in some measure lost, and entirely to in respect to the master of each branch. The man whose fortune depends entirely on the labour of the spinner, is more likely to understand spinning in perfection, than he who is equally concerned in fpinning and weaving; and it is perhaps the fame with respect to dressing, milling, dying, &c. when each is a separate business each must be cheaper and better done. The appointment of commis and overfeers lessens, but by no means gets rid of the difficulty. In viewing a manufacture therefore I am not fo much strack with that great scale which speaks a royal foundation, as with the more diffusive and by much the more useful signs of industry and employment, which spread into every quarter of a city, raife entire streets of little comfortable houses, convert poor villages into little towns, and dirty cottages into neat habitations. How far it may be necessary when manufactures are first introduced into a country to proceed on the plan followed by Louis XIV. I shall not enquire, but when they are as well established as they are at prefent, and have long been in France, the more rivals in finaller undertakings, which thefe great establishments have to contend with, the better it will generally be found for the kingdom, always avoiding the contrary extreme, which is yet worfe, that of fpreading into the country and turning what ought to be farmers into manufacturers.

Befides fine cloths, they make at Abbeville carpets, tapeflry, worsted stockings, barracans, a light stuff much worn by the clergy, minorques, and other similar goods.

They have also a small fabric of cotton handkerchiefs.

AMIENS—Abounds with fabrics as much as Abbeville; they make cottons, camblets, calimancoes, minorques, coarfe cloths; there is fearcely any wool worked here but that of Picardy and a little of Holland, none of England, or next to none; they would get it they fay if they could, but they cannot. I examined their cotton flockings carefully, and found that 4 or 5 livres was the price of fuch as were equal to those I had brought from England, and which cost at London 2s. 6d.; this difference is surprizing, and proves, if any thing can, the vast superiority of our cotton fabrics.

Breteurl.—They have a manufacture here on a finall feale of feythes and wood hooks, the former at 45% the latter at 30% the iron comes from St. Diziers, and the coals from Valenciennes. Nails are also made here for horse-shoes at 8% the lb. but

not by nailors who do nothing elfe.

ORLEANS.—The manufactures are not inconfiderable, they make flockings of all kinds, and print linens; a fabric of woollen caps has been established here since Louis XIV.'s time, in which two houses are employed; the chief we viewed. It employs at home about three hundred working hands, and twelve to fisteen hundred others. The caps are entirely made of Spanish wool, three ounces of yarn make a cap; they are all for exportation, from Marseilles to Turkey and the coast of Africa, being worn under turbans; in dressing they extract the grease with urine, full and sinish in the manner of cloth.

The fugar refinery is a confiderable business, there are ten large and seventeen smaller houses engaged in it; the first employ each forty to forty-five workmen, the latter ten to twelve; one of the principal, which I viewed, makes 600,000lb. of sugar, and the rest in proportion. The best sugar is from Martinico, but they mix them together. Rum is never made from molasses, which is fold to the Dutch at 3st. the lb. the scum is squeezed, and the resule is spread thick on meadows to kill moss, which it

does very effectually. The price of raw fugar is 30 to 45 livres per 100lb. The coal they burn is from the vicinity of Moulins, in the Bourbonnois. Trade in general is now brick here.

ROMORENTIN.—A fabric of common cloths for liveries and foldiers, carried on by private weavers, who procure the wool and work it up; they are at least one hundred in number, and make on an average twenty pieces each in a year; it is fent to Paris. At Vatan there are about twenty of the same weavers and three hundred spinners.

CHATEAUROUX. - A fabric of cloth, which two years ago, before the failure of the mafter, gave employment to five hundred hands, boys included, and to one thousand five hundred to one thousand eight hundred spinners in this and the neighbouring provinces; it is a Manufacture Royale, like that at Abbeville, of Vanrobais, by which is to be understood an exemption for all the workmen employed within the walls from certain taxes, I believe tailles. Some gentlemen of the town keep at prefent one hundred hands at work in the house, and the sciences depending on that number, in order that the fabric might not be loft, nor the poor left entirely without employment; there is true and ufeful patriotifm in this. The cloths that were made here were 1 to 11 aulns broad, which fold at 8 livres to 23 livres the auln; they make also ratteens. In the towr are about eighty private weavers, who make nearly the fame cloths as at Romorentin, but better; fell from 8 livres to 18 livres the auln, 14 broad; these private tabries, which do not depend on any great establishment, are vastly preferable to concentrating the branches in one great inclofure; the right method of remedying fuch a failure as has happened here, is to endeavour by every means to increase the number of private undertakers. The cloths are all made of the wool of the country now 20 to 37/. the lb. it has been dearer for two years, and ten years ago was to be had for 15 to 20% from the 2.4th of June it is fold at every market, and in large quantities; manufacturers come from Normandy and Picardy for twelve days together to buy wool, wash, and fend it off.

At two leagues from Chateauroux are iron forges, which let at 140,000 livres a year, (6125l.) belonging to the Count d'Artois.

Limoges.—The most considerable fabric here is that of druggets, the warp of which is of hemp thread, and the woof of wool, one hundred looms are employed by them. Siamoife stuffs are made of hemp and cotton, fold at 30 to 48% an auln; there are about one thousand or one thousand one hundred cotton spinners in the Limosin, also various mixed stuffs of filk and cotton, and fix and thread, under many denominations, for gowns, coats, waistcoats, breeches, i.e. from 4 to 6 livres the auln. Some stuffs, which they call China, are rather dearer; a gown felling for 4 louis, but of filk gauze only 2 louis; this fabric employs about twenty looms, worked each by three or four people, boys included. I took many specimens of these fabrics, but in general there is a great mixture of shew and sinery with coarsenses of materials and cheapness of price, not at all suitable to an English tasse.

They have also a porcelare manufacture, purchased by the King two years ago, which works for Seve; it gives employment to about fixty hands; I bought a specimen, but nothing they make is cheap, and no wonder, if the King is the manufacturer-

They have in the generality of Limoges, which includes the Angoumois, feventy paper mills that manufacture all kinds; they are supposed to make every day to the quantity of 19 cures, the contents of which vary according to the fort of paper. A cuve of 13clb, will make 6½ reams of large and fine paper, but double that quantity of other forts; they calculate that a mill can work about two hundred days in a year, sessional and repairs excluded; this makes at a cuve a day 454,200b, for a year's work

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of a nill, and 31 794,000lb, for the whole generality, and they value it at 20% the lb. which makes as many livres, or 1,390,987l. They confider the manufacture as greatly everbacked with an excife, which amounts to about 3th part of the value, but they have an allowance for all they prove to be defigned for exportation, in the nature of our drawbacks; the manufacture has increated notwithstanding of duty. They reckon there, and in all the piper mills of France, the cylinder for it ling the rags, which they call Datch (and which we have had follong in England), as a new and great improvement. Each nill employs from twelve to twenty bands, including carters; they reckon that half the paper is exported, much to the Biltie, and fone they fav to England.

They have also in this generality forty iron forges, some of which employ one hun-

dred people, one is a foundry for cifling and boting cannon.

Brive. — A filk fabric has been ellablished here about five and twenty years, filk alone is wrought in it, and also mixed with cotton, and gauzes of all kinds are made; they say they have discovered a manner of dying raw filk, with which they make plain gauzes 4ths of an aulin broad and 11 long; the price varies according as they are chinées (waved), or not; a piece white, striped or not, is 54 livres, (21, 78, 3d.) coloured ones 6c livres, (21, 128, 6d.) and the chinées 80 livres, (31, 108, od.); they make also a thick shining stuff in imitation of Manchester, at 6 livres the aulin, also sitk and neck handkerchies of a German taste, sold chics in Germany and Auvergne. A merchant also at B sile, in Switzerland, is so good a customer as to have taken one thousand dozen of them. They have fixty or eighty looms constantly at work in the town; the weaver having his loom in his house and supplied with the material from the manufactory, and paid by the piece; each loom employs sive people, women and children included. They use only French sik, which though not so shaining as the bulian, is they say, stronger, bears the preparation, and wears better.

They have allo here a cotton mill and fabric which is but in its infancy, has only one combing machine, and three double ones for fpinning; they fay that this machine, with the affillance of the in people, does the work of eighty; this undertaking has been established and is curried and by Mcsfrs. Mills and Clarke, the former an Englishman from Canterbury, the latter from Ireland, both induced by encouragements to settle in France.

Southlac-Parac.-No manufactures whatever in the country.

CATORS.—Some finall manufactories among them, one of woollen cloth; fome years ago it had near one thousand workmen, but the company disagreeing, a law-fuit ensued, so that it decreased to one hundred and sifty; the spinners are chiesly in the town; work up both French and Spanish wool, but the latter not of the first quality. They showed us however some cloth, made as they say, entirely of Spanish wool, at 3 livres 1cf. the lb. which is not so good as their ratteens made with $\frac{1}{4}$ wool of Navarre and Roussillon, and $\frac{1}{4}$ Spanish; they make some cloths for the home consumption of the province, entirely with the wool of Navarre, an auln broad, at 11 livres the auln; ratteens $\frac{1}{4}$ of an auln broad, at 22 livres the auln; a second fort of ratteens, made with French wool, an auln broad, 11 livres the auln.

CAUSSADE.—This country is full of peafant proprietors of land, who all abound very much with domeflic manufactures; they work their wool into common cloths and camble is, and all the women and girls fpin wool and hemp, of which they make linen; there are weavers that buy about two quintals of wool, pay for the fpinning, weave it, and carry the cloth to market, and there are merchants that buy the fuperfluity for export.

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MONTAUDAN. - The woollen manufacture here is of some configurace, confishing of common cloths, creifees, half an aula broad, and feveral forts of fluffs; they give the epithet rayale to one house, but in general the spinning and weaving are carried on both in the town and the country, not only on account of the matter manufacturers, but also by private weavers, who make and carry their fluffs to market undreffed; the people of the fabric I viewed affert, that they use only Spanish wool, but this is every where in France a common affertion by way of recommending their fabrics, and has been heard in those, known on much better authority to use none at all; another circumstance to be noted is, that the wool of Rouffillon goes in common manufacturing language under the denomination of Spanish; I saw their raw wool, and am clear, that if it is Spanish, it is of a very inferior fort; the quality and the price of the cloths speak the same language; they dye the cloth and n previously; they fell their broad cloths, which are this of an auln wide, a are e auln, (14s. 10 d.) and the eroifees at 5 livres 10%. Twelve mandred 1 and to be employed by this fabric.

The filk manufacture is also convirons, but of the upper country and, former the chief; it is executed like the and by private looms; a stocking engine costs from 15 to 20 louis, and a workman can earn with it to 3 livres a day.

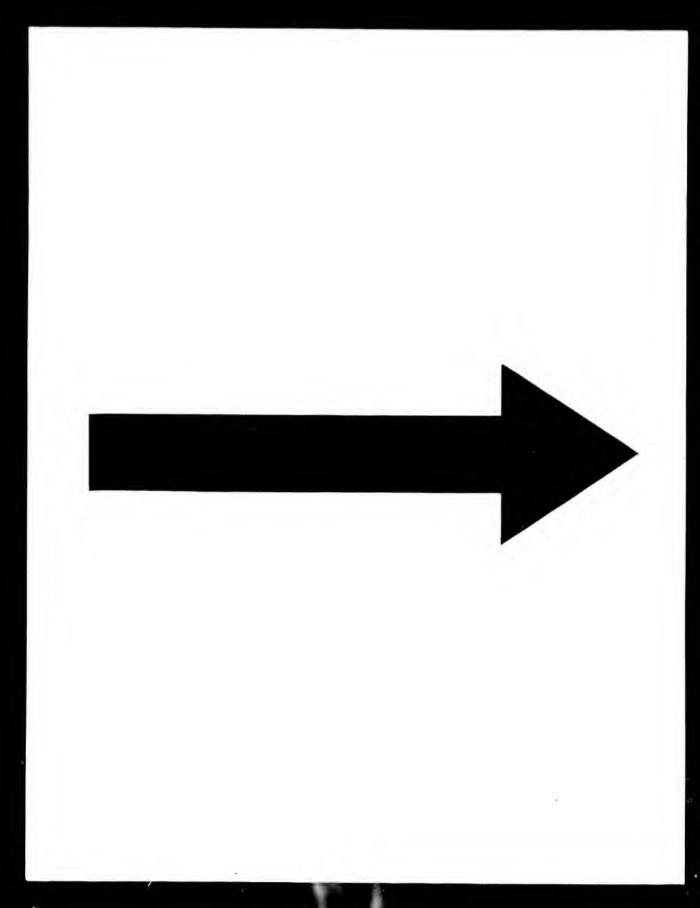
Toulouse—Has a wooflen and a filk fabric; in the first are worked light stuffs, and has about eighty looms, which are in the town; in the other stockings, stuffs, damasks, and other fabrics, worked in slowers; about eighty looms also.

St. Martin.—There are here ten manufacturers' honfes, one of which made last year feven hundred pieces of woollen stuffs, each fix and is long; on an average each honfe five hundred pieces, chiefly bays, fays, and other stuffs, the chain of thread; seme for home confamption, but chiefly for exportation to Spain. Their best is 4 livres 15% the canne of eight palms, and ten palms to the aulin, bult an aulin broad. Other stuffs 3 livres 15% dye in all kinds of colours. There are plenty of spinners of both thread and wool; weavers and spinners are spread over the country, but the combers and carders are at home. They are spanish wool from the Navatre hills at 35% the lib. this year 32% but very dear.

ST. GAUDENTZ: Manufactures feveral forts of fluffs, both wool alone, and wool and thread mixed; the principal fabric is a light fluff called Cadis, the greater part of which is exported to Spain.

BAGNERE DE LUCTION.—At half a league from this place is a manufacture of cobalt; it is faid, the only one in the whole kingdom, which was all fupplied, before the eftablishment of this fabric, by a Saxon gentleman, from the works in Saxony; and what is now made here is used at home and exported as Saxon coba't. The ore is brought from Spain at a very high price, from a mine in the Pyrences, not more distant in a strait line than fix leagues, but the road is fo rocky that the ore is brought by the valley of Larbouste, which takes up a day and a half. The ore is not found in veins, but in lumps (regions), so that it is often lost and found again.

A remarkable circumflance, and hardly credible, is their employing ore also from Styria, which is shipped at Tricite for Bourdeaux, and brought by the Garonne to Toulouse, and hither by land, at the expense of 45% the quintal. They use also some from Piedmont; of these different ores, that from Styria is the worst, and the Spanish the best; they cost at the manufactory, one with another, 300 livres to 360 livres the quintal: the Spanish ore is the first described by Mons. Foureroy, the grey or ash coloured; they do not melt these ores separate but mixed together.



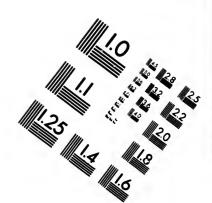
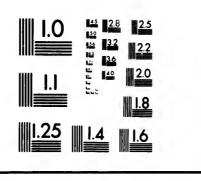


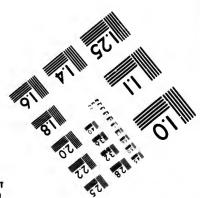
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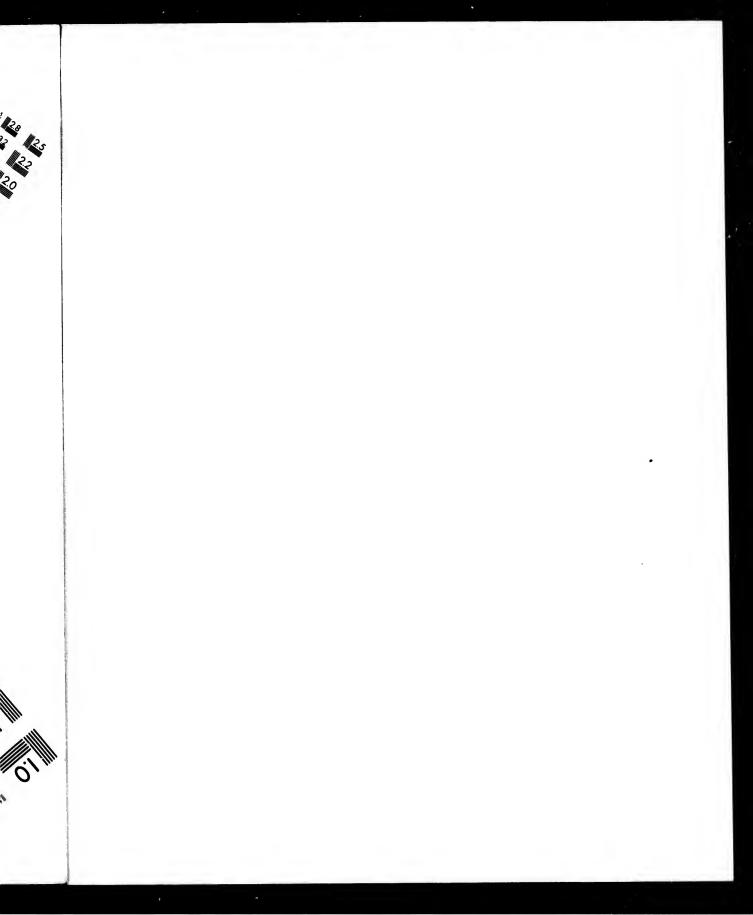


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Transplantation. - In April following, those that were fown in May are transplanted. three feet every way, into the nursery; only half the plants (the best) being drawn, the rest are left till the year after. They are never transplanted a second time.

Sort.—The feuille rose, with white or grey fruit, is the best; black fruit not known

here, but faid to be good for leafing late, and escaping frolts in the spring.

Grafting. - It is best to graft in the nursery, in May, when they are three years old. at the head, with grafts cut in February preceding, and preferved in fand in a cellar: thefe grafts are branches three feet long, which are buried in fand, except four inches at the end, for three or four knots to shoot; if all are buried in the fand, all the knots will shoot. At grafting cut off those knots that have shot out, and use the rest. The time is after gathering the leaves of the standard to be grafted, when the plants are five feet, or 51 feet high. One year after grafting transplant, that is, about April. Graft three or four branches.

Soil. -- Good and humid fands, and fandy loams are the best: warm, forward, rich, and friable: rocky and stoney foils do well; but all clays are bad. On the lightest stoney lands, the trees come into bearing much sooner than in the rich vale, but these last vallly longer; on the rich vale land, two hundred years are a common age for

them.

Planting.—In bad land plant at eighteen feet square, in moderate at twenty-four, and in very good at thirty fix; and, after feven or eight years, there can be no crops under them, if at these distances. There are two forts of trees, the one large standards; and the others dwarf ones, which they call murier nain; an arpent contains, of courfe, many more in number of these than of the others; and they yield, for the first ten or fifteen years, a larger produce, but afterwards the greater trees are more productive. The dwarfs are best for being set in rows, for ploughing between; they are grafted at 14 feet high; are never watered. The price of trees 2 f. the hundred, at the age of one or two years; the great trees, at four or five years, for grafting, 10f. each, at prefent 15/. each, and grafted. The operation of planting is performed by digging a hole fix feet square, and 21 or three feet deep; and they commonly lay dung upon the

Cultivation .- The attention with which they manage the trees after planting, merits the highest commendation: - after they have been planted two years, a trench is dug around each tree, about two feet deep, which is left open all winter, and filled up again in the spring; the year following another is dug, more removed from the tree, which is managed in the same manner; and so on every year a trench, till the whole land is flirred as far as the roots extend. This appears to be a most excellent system, and preferable to trenching the ground at first; as in that way much of it is confolidated again, before the roots of the young trees reach it.

No crops whatever to be fown on the land after the trees are of a fize to have their

leaves gathered; as much is loft in leaves as is gained by fuch crops.

The trees should never be pruned at any other scason than March, and but once in two years; the wood pays the expence: they receive one digging per annum, at 6 livres,

and a hoeing at 3 livres per arpent.

There is another admirable practice known here, and used by all skilful cultivators, which is that of washing the stems of the trees every year, in May, for four or five years after planting. Monf. L'Abbé Berenger always practifes this with great fuccefs.

Produce. - For the penefit of the young trees, they ought not to be stripped for feven or eight years after planting into the field; they will pay well afterwards for this forbearance;

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bearance; but the practice is not common. I viewed a young plantation of Mons. Blanchard, at present in the National Assembly, who is famous for his attention to his mulberries; the trees were fix, seven, and eight years old, and none of them had ever been stripped, and their appearance was very flourishing. Mons. L'Abbé Berenger approves the practice, but has not adhered to it; his trees, however, are very sine, and do not complain; one plantation, of eight or ten years growth, that have constantly been stripped, are, notwithstanding, very sine. There are forty on sour hundred toises of land, that this year produced, each tree, eight pound of leaves. The beginning of February he planted the land under them with potatoes, which were dug in August, and produced forty quintals; among these potatoes maize was planted in April, in squares of sive or six seet, and the produce of that will be sive or six quintals, at 8 livres the quintal. He shewed me another plantation, of an arpent, of very sine and three hundred pound on the arpent. They are ten years old; no crops have ever been sown under them.

The produce of leaves may be estimated at fifty pound from a tree of a toile square. The greatest produce known is ten quintals, from a tree of fifty years old. At twenty years the medium is two quintals. They increase till fixty years old; but are in good perfection at twenty.

The eggs.—A paper of nine inches by fifteen inches, covered with small leaves, stuck full of worms, gives one quintal of cocoons; and this is what they call one ounce of grains. But proportions will not hold, for the produce is not increased proportionably to an increase of quantity.

Hatching.—Retarding the hatching of the worms with particular views, is, in many circumstances, impossible. When once the heat of the atmosphere is come to a certain pitch, the hatching cannot be retarded by cellars. Mons. Faujas remarked, that in June they would hatch in an ice house; which shews that at a certain age they will hatch in spite of cold. They never, however, trust to the natural heat for hatching them, which always does it too slowly; it is done with the affistance of fire, and in the month of May. They begin to hatch at twenty to twenty-two degrees (Reaumur); but artificially it is done at twenty-four degrees. When the eggs happen to have been put in a cellar, at ten degrees, their common temperature, they afterwards hatch with difficulty, and never well; always best when they have to undergo but a moderate change.

Feeding.—In this business all forts of food, except the mulberry leaf, is rejected, at the first mention, as the most ridiculous, impracticable, and impossible idea, that ever entered the head of a visionary; and never could be conceived but by those only who amuse themselves with a few worms, without taking the trouble of calculating quantity, expence, and quality of filk.

For one ounce of grain, a room of ten feet by fourteen feet, and twelve feet high, is necessary; but the larger the better, and with windows only to the north. There should be ten tables, or shelves, six seet long, and 4; feet broad, one eighteen inches above another; the first expense of which is 60 livres.

Till the 18th of April there is here no fecurity against frosts. Two years ago there were many leaves before that day, and most people began their operations; the leaves were all cut off, and they lost the year entirely, for it is three weeks before the leaves come again. Mons. I.'Abbé Berenger would not trust appearances; did not begin till after that day, and had as good a year as at any other time.

The expences are usually borne between the parties, and amount to half the produce, not including the keeping the utenfils in repair. But if they are paid by the owner of the mulberries, some of them amount to as follow: gathering the leaves, 10% to 15% the quintal; for gathering the dwarfs, only half the price of the others; wood, 15 livres for one, two, or three ounces of eggs in one room: thirty livres for fix ounces, because in two rooms; 22 livres 10% for labour in the house; spinning, 40% per lb. of filk. The waste is worth 20% therefore the expence is 20%.

For the last four or five days, eight men are necessary to gather leaves for twenty

ounces of grain, their voracity being incredible the latter part of the time.

The price of the leaves, if bought, is 4 livres to 5 livres the quintal, never at 3 livres, but has been at 10 livres. From fifteen to eighteen quintals of leaves give one quintal of cocoons, and one of cocoons gives nine pound of filk. Cocoons are fold at 26/. the pound; filk, on an average, at 19 livres. The leaves, diffected by the worms, are dried, and kept for hogs, sheep, &c. being worth 4 livres the quintal; and an ounce of grain yields two quintals of such: and the dung of the worms, from an ounce, is worth 4 livres more, being excellent; the best indeed of all-others.

Two brothers here, Messes. Cartiers have had as far as eighty quintals of cocoons. Mons. Berenger's three hundred trees on an arpent, at eight pound of leaves each, are twenty-four quintals; and, at 4 livres the quintal, amount to 96 livres: and as fixteen quintals of leaves give nine pound of filk, at 19 livres, it is 171 livres, and for twenty-four quintals, 256 livres, the half of which is 128 livres; hence, therefore, to sell the leaves at 4 livres the quintal, does not answer equally with half the produce (128 livres)

per arpent de Paris, is 61. 4s. 3d. per English acre).

PROVENCE.—Avignon.—At ten years growth the mulberries yield a confiderable produce; at that age they give one hundred pound to one hundred and fifty pound of leaves, but not common. For one ounce of grain, five or fix very large trees are necessary; or, if the leaves are bought, to the amount of 24 livres to 30 livres. The ounce will give from forty pound to fifty pound of cocoons, or five pound of filk; but more commonly twelve pound of cocoons for 1 pound of filk. Gathering the leaves, 10f. or 12f. the quintal, one with another, dwarfs and standards. The waste pays the spinning.

Aix.—Mulberries, beyond all comparison, more profitable than oliver will give a livres or 4 livres per tree, more regularly than olives will 10s.; but the at planta-

tions of olives are on barren rocks that will not do for mulberries.

Tour d'Aiguer.—One ounce of grains requires fifteen quintals of leaves, and gives fifty pound of cocoons; that is fifty pound in a fmall undertaking, like the house of a poor family; but not more than thirty pound in a large building. Monf. the President has, however, had seventy-five ounces of grain that gave forty pound one with another: fourteen pound of cocoons give one pound of organzine siik.

On good land, twenty trees, of ten years old, will give fifteen quintals of leaves. The waste, with the addition of 15 per pound, will pay the spinning. Wood is 12 the quintal, and 1 quintal will wind and spin one pound of silk: and one quintal of charcoal will make three pound of silk. The common calculation is ten quintals of char-

coal for one ounce of grain.

Labour and fuel, 4% per pound of filk, exclusive of gathering the leaves; but the common method is to find the trees and the grain, and give half the produce for all the rest. The whole business, exclusive of winding and spinning, employs exactly a month.

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> dred quin filk produ account, t and more and thirty. venteen t about thre ported raw call it twe hundred a dred and i fo grofs ar of looms, If Langue cannot pro vinces, exc ed, at Lyo thirds of th to the valu than one h one third that even more than produce. the amoun confiderab that of Ital principaliti

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Hyeres.—This article is here but little regarded; the number is not confiderable, nor do they pay nearly the fame attention to them as in Dauphiné. A tree of twenty years pays about 30s.; and some, of a very great fize and age, 6 livres.

Frejus.—Close without the town, on the banks of a fmall canal of irrigation, are five or fix of the largest mulberries I have seen, growing close to the water's edge; from which it should appear, that they have here none of that objection to water which was mentioned to me at Montelimart.

Estrelies.—At the inn here there is a mulberry tree which yields black fruit, and leaves of a remarkable fize. I asked the master, if he used them for filk-worms? Never, he replied, they are no better for them than elm, oak, or pine leaves: it is the white mulberries that are for worms. So inaccurately understood is this point, even in the filk countries; for in Languedoc they told me, all forts were given indifcriminately. This tree would be worth 2 or 3 louis a year.

To these notes, taken by myself, I shall add a few others, for the more general elu-

cidation of the fubject.

Languedoc yields, in a common year, from five hundred to one thousand two hundred quintals of filk *. I have fearched books in vain for information of the quantity of filk produced in all France; but I find the number of looms which work it, by one account, twenty-nine thousand †, of which eighteen thousand at Lyons; but by a later and more authentic account, there were at Lyons only nine thousand three hundred and thirty-five looms, which worked about two million pounds t, and in all France feventeen thousand five hundred looms; which, in the same proportion, would work about three million, seven hundred and fixty three thousand pounds. In 1784, she imported raw filk to the value of 29,500,000 livres, and in 1787, to 28,220,000 livres; call it twenty nine millions, and 20 livres the mean price per lb. it is one million, four hundred and fifty thousand pounds §; which will leave about two million, three hundred and ten thousand pounds for the home produce, or 46,200,000 livres, which is fo grofs an impossibility, as to ascertain to a certainty, the exaggeration of the number of looms, and confirms, in a fresh instance, the many errors in the New Encyclopædia. If Languedoc produces onl, one hundred thousand pounds, all the rest of the kingdom cannot produce twenty times as much; for the culture is confined to three or four provinces, except small quantities, that enter for little in a general account. I was informed, at Lyons, that the home growth was about a millions of pounds weight, of twothirds of the value of the imported per lb. or about 20 livres. This makes the growth to the value of 20,000,000 livres or 875,000l. If fo, Languedoc must produce more than one hundred thousand pounds, for that province must be at least one-fourth, if not one third of the whole. I must confess I have my doubts upon this point, and think that even one million of pounds much exaggerated, for I croffed the filk country in more than one direction, and the quantity of trees appeared inconfiderable for any fuch produce. But admitting the authority, and stating that the kingdom does produce to the amount of 8 or 900,000l. serling, I must remark, that the quantity is strangely inconfiderable, and feems to mark, that the climate has fomething in it vaftly inferior to that of Italy, for the production of this commodity; in which country there are little principalities that give more than the whole kingdom of France; -yet, to human feel-

^{*} Considerations sur le Commerce de Bretagne, par Mons. Pinezon du Sel des Mons. 12mo. p. 5. † Leure sur les Muriers & Vers a soie Journal Economique, 1756, vol. ii. p. 36.

Encyclop. Methodique Manuf. tom, ii. part 2. n 44. A very late writer was strangely millaken in faying, that France imports 20,000,0000 of pounds weight. Mr. Townsbend's Journey through Spain, vol. i. p. 52.

ings, there is no comparison between the climate of France and that of Italy; the former is better, beyond all question. But the spring frosts, (found in Italy also) are what bring the greatest destruction on this culture, and will for ever retard its progress greatly in countries exposed to them. In 1788, there was a general failure in the south of France, yet across the Pyrences in Catalonia, the crop was abundant, merely because the

fpring frosts did not pass those mountains.

In the districts and spots of the southern provinces, where the climate has, from experience, been found favourable to filk, there is no want of exertion in following it; and about Loriol and Montélimart, it is cultivated with more energy than in any part of Lombardy, yet at small distances there are no mulberries, though the proprietors are as rich and as industrious as where they are found. The same observation is to be made every where, and seems to mark a great dependence even on the locality of climate, if I may hazard such an expression. Where the culture succeeds well, it appears, from the preceding minutes, to be highly profitable, and to form one of the most beneficial

objects that can attract the attention of the industrious.

The Society of Arts at London, have, for many years, offered premiums for mulberries and filk in England; and much has been written and argued in favour of the fcheme, which I take to be a great but harmless folly; it may mislead and deceive a few ingenious speculative people, who may, for what I know, in the course of a century, arrive at luch fuccess as the late King of Prussia boasted, that of making a few thousand pounds of miserably bad filk, after forty years' exertion. Such success is a real lofs; for the fame attention, time, capital, and encouragement, given to productions natural to the climate, would have made twenty times, perhaps an hundred times, the return. That filk may be made in England I have no doubt; but it will be made on the fame principles, and attended by the fame dead lofs. The duke of Belleisle made filk in Normandy, and if he had been a great fovereign, his hundreds would have been thousands of pounds; but all was loss, and therefore the sooner it dropped the better. Another duke failed, not quite fo much, in the Anguomois; and a third planted mulberries to loss on the Garonnne; his neighbours did the same, but grubbed them up again because they did not answer. At Tours, the finest climate of France for fruits, and by confequence well adapted for mulberries, they fucceed tolerably, but the culture does not increase, which carries with it a prefumption, that more steady heat in fpring is wanted than the northern provinces of France enjoy. Such circumstances bear with great force against any ideas of filk in England, where the heat is never fleady; and leaft of all in spring, where late froits cut off vegetables much hardier than the mulberry, even so late as the end of May and beginning of June; and where I have feen potatoes turned black by them, even on Midfummer day.

The minutes are invariably decifive, on the question of feeding worms with any thing but mulberry leaves; the utter impracticability of that scheme is shewn in a manner too satisfactory for any doubts to remain; and the difficulty of retarding the latching of the worms beyond a certain a period, though not proved with equal decision, is yet placed in a light not a little questionable. It is upon these two modifications of the common practice, that silk in England confessedly depends; one of them is a vague groundless theory; and the other too uncertain to be relied on. But I must further remark, that frosts, in such a climate as England, as well as abroad, are to be looked for after the leating of the mulberry; and consequently, that the power of retarding the latching of the eggs would be useless; the worms in that case must be put upon other food, which, with small parcels, would make bad silk, and with large ones would demand an expence impossible to submit to every year, for a mere contingency that might

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be demanded only once in three or four. To urge the example of Brandenbourg is idle: in the first place, all continental climates are more regular than infular ones, and therefore the climate of the King of Prussia's dominions may be better for the business; yet with this advantage Normandy failed. In 1788, that is after forty years' exertion, they made, in all the Prussian territories, eleven thousand pounds *, of pounds lighter than French ones. And the author I quote on this subject, who commends the project, informs us, that in Brandenbourg, to make a pound of filk demands one-fourth more cocoons than in the fouth of France +; and that the filk thus made is fo bad, that it will do only for certain objects ; of the climate he fays, that it is not favourable enough & for the business. What encouragement is to be collected from this detail, when it is confidered that forty years effort of the first talents in the world, seconded by boundless power, forcing plantations and lavishing premiums, have been able to drive this nail, that will not go but against nature, to no greater extent than eleventhousand pounds of bad filk in all the Prussian dominions? In my opinion, the result of fuch an experiment yields a more complete condemnation, than if it had never been tried at all in such a climate, and ought to be a lesson to us in England, not obstinately to perfift in such foolish attempts, calculated only to bring ridicule on societies, and disappointment to individuals. In all probability, the filk made in Prussia cost every year ten times more than it is worth; that is to fay, the fame royal attention, the fame premiums, the fame favours, as giving trees and filk eggs, the fame powerful instigations to rectors and cure's of the crown livings, &c .- had they been exerted to people the heaths of Brandenbourg with sheep, would have yielded, in wool alone, ten times the value of eleven thousand pounds of filk; which, if we value it at 12s. a pound, being fo inferior, amounts only to 6,600l.; -a pretty article of produce for forty years' effort of the most energetic government in Europe! sifty thousand sheep, at 3s. a head in wool, go much beyond it, throwing mutton out of the question.

. An idle error in England, is the idea that this culture demands the labour only of women and children, and old and infirm persons; the contrary appears the fact; eight men are necessary for gathering the leaves for twenty ounces of grain, during four or five days, when the worms are most ravenous; and the work of gathering is that of men at all times; for the leaves are not picked, but stripped along a branch, by force and hardness of hand. And even the feeding and cleaning worms is so far from being light work, that it is, on the contrary, very levere, fo as even to kill fome of the poor people that follow it up; as the industrious will follow up all work severely. The culture is therefore very far from what it has been represented in England, as being all net profit, demanding only women, children, and the infirm; on the contrary, it would demand many able men, at a bufy feafon of the year, when they could be ill fpared; and if a proposal was to be made at such a season to a farmer, that he must spare men enough to gather all the leaves of many hundred pollard trees of any fort, he would probably fay, the price of mulberry leaves in the filk countries would not pay him; and that double that price would not be an inducement to him, at fuch a feafon, to derange his business, and take his men from necessary work, for employing them on such a bufinels. If it is asked how the fune thing can be done in filk countries? I answer, that labour is but half the price of English labour, owing to cause explained in other chapters; that the multiplied subdivision of landed property fills many of those countries with hands, - many idle, and many not half employed. To them the culture is highly valuable; but to introduce it in a country, even if the climate would permit, conflicted and politically arranged, in a manner and upon principles abfolutely contrary, would be

‡ Tom i p. 180. § Tom. ii. p. 166.

^{*} Mirat-au Monarch. Pruff. tom. i. p. 189. † Tom. ii. p. 166.

attended with difficulties and expences, not in the contemplation of people very ingenious, perhaps, who have amufed themfelves with filk-worms, and paid an attention to them, being a pleafure, which, if commercially valued, would possibly amount to fifty times the value of all the filk they make.

CHAP. XXIV .- Of Cattle in France.

EVERY part of agriculture depends so immediately on the quantity of live slock, that a farming traveller cannot give too much attention to so material a part of his pursuit. The cand a reader will not, however, look to any traveller, that does not reside long in a place, for such information as is alone to be acquired by such residence. He who stays a week will gain knowledge beyond the attainment of a day; and the attention of a month will produce fruits beyond the reach of him whose observations are limited to a week, and yet remain very superficial, when compared with the researches of others who live on the spot. A mere traveller should gain what his opportunities allow, and what he is thus able to gain is not the less valuable, because larger powers would have commanded a greater harvest.

PAYS DE BEAUCE. - Toury, &c. - Their best cows fell at 150 livres; they give twelve

or thirteen bottles a day.

Orleans.—They have a remarkable custom of letting chick-weed get a head in their vineyards, which they pluck in May and dry. This they boil in water with bran for their cows, giving it thrice a day, and find that it makes them give double the quantity of milk they would do on any other food. This application of a common plant, that might easily be cultivated, and got off time enough for a crop of turnips, probably improving the land, deserves a trial. The fact is curious.

SOLOGNE.—To La Ferté.—Make hay of the weeds of their vineyards, and are the chief support of their cows; do not boil, but give them in bran and water. In summer feed with grass and vine cuttings.—A cow, that gives one to three bottles a day, sells

at go livres.

La Fuzelier. - The cows fmall, and very like Alderneys. Plough bullocks of the fame breed.

BERRY.—Verson.—A pair of oxen, ready to work, fell at 400 livres (171. 105.); and

when old and past labour, but lean, 300 to 340 livres.

Argentan.—A good pair of oxen fell at 400 livres; common ones 300 livres; very fine to 600 livres (261. 5s.). All the cattle here are cream coloured, as well as the droves we have met going to Paris.—A cow, not the largest, fells at 150 livres (61. 115. 3d.).

LA MARCHE.—To Boifmandé.—Very fine bullocks, well made, and in great order, 600 livres (261. 58.) the pair. These oxen are of a beautiful form; their backs strait and flat, with a fine springing rib; clean throat and leg; felt well; and are in every

respect superior to many breeds we have in England.

La Ville Aubrun.—Work their cows, but they do not give as much milk as if not worked. A good one fells, with its calf, at 150 livres (61. 11s. 3d.). They fatten oxen here with raves, a fort of turnip; begin to use them in October or November, and latt generally about three months. To fatten a pair of good oxen, would take forty-sive cart loads, cut in pieces, and twenty quintals of hay; when the raves are done, they give the flour of rye or other corn, with water enough added to form a passe; this they leave four or sive days to become sour, and then they dilute it with water, thicken it with cut chass, and give it to the oxen thrice a day; when sed with raves the oxen do not want to drink. Such a detail would imply a turnip culture of

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towns, as we cream colo dency to a their carcaftraight and very fat; to of real imp weight I g few may be like our ole St. Georg

always kep fuch labou cows.

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fome importance, but though hoeing is not abfolutely unknown, yet the turnips may be conjectured, from the common management, being never to hoe, fearing to cut up the crop by it. The young plant is fometimes eaten by the fly, in which case they sow again; frost sometimes damages the roots, but never destroys them entirely. Often sow wheat after them, and do not cultivate clover: thus three-fourths of the merit of the culture is lost.

Baffie.—Their raves yield, according to the year, two or three cart loads per boiserée of land, about eight of which make an English acre. A pair of good oxen will eat a cart load in two days, but have hay with them: they are as fond of this root as horses are of oats: they sinish with flour of rye, mixed as before-mentioned: they affert that the oxen like it the better for being sour, and that it answers better in fatting them. They eat about a boiseau a day (weighs 22 lb.) and never give this acid liquor without chopped hay. It is proper here to remark, that, in coming to Paris, we have met a great many droves of these oxen, to the amount I guess of from twelve to fifteen hundred, and that they were with sew exceptions very fat; and considering the season, May, the most difficult of the year, they were fatter than oxen are commonly seen in England, in the spring. I handled many scores of them, and sound them an excellent breed, and very well fattened.

Limousin.—To Limoges.—A pair of good oxen will eat a cart load of raves a day; begin to feed the end of October: after the raves, give rye-paste as described above, but with the addition of a leven (levain) to the paste, to quicken the fermentation, and make it quite sour: at first the oxen will not drink it, but they are starved to it; usually take it the second day, and after they have begun like it much, and never leave a drop. Saw a pair bought last winter for 1100 livres (481. 2s. 6d.); but such as are ready for work, sell as dear as fat ones, which is remarkable. An arpent of raves yields forty cart loads; and a pair of good oxen will eat a load a day. They have two kinds; one very large and stat, the other more round, and with a root that enters the ground deeply. They generally manure thoroughly for them in March, and plough in so early that the dung may be quite rotten and mixed with the soil by the end of June. Begin to sow a fortnight after Midsummer: they are not hurt by the frost when it thaws with rain, but are apt to rot when it thaws with the sun. About Christmas they plough up the part eaten, and sow rye, the rest for oats. They plough their cows, milking them once a day, from three to five bottles.

Limages.—The great staple of the whole province is fat cattle, sent to Paris and other towns, as well as hogs, that go for salting to the sea ports. The cattle are all of a yellow cream colour, with no other distinction than having, one in an hundred perhaps, a tendency to a blood red: all have horns of a medium length; legs shoot in proportion to their carcasses, which are deep and heavy; the shape in general very good; the back straight and broad; the rib springing, and consequently well arched; the hips and rumps very fat; the tail rising high from the rump; which I note, not because such points are of real importance, but because it is esteemed by some as a proof of a bad breed: the weight I guess to be from 60 to seventy stone (14 lb.;) some rise to eighty, and a very few may be so low as sifty. Their hogs are many of them large: some with lop ears like our old Shropshire's.

St. George.—The same breed of oxen continues here, but hardly so large; they are always kept in high order: a pair draws the weight commonly of 2000 lb. and supports such labour well. They rear calves by keeping them eight or ten months with the

Ujarch.—Fatten their oxen with raves, as above, and then with rye-flour, made into a paste with leaven, and given sour, as before described. They also satten some with potatoes, mixed with chesnuts, and also alone; but in either case boiled thoroughly, and given fresh as boiled every day. They have a great opinion of their sattening quality: they feed their cows also with this root, and find that it gives a great increase of milk. Calves reared, either for oxen or cows, suck ten or twelve months, which is the universal practice.

QUERCY.—Brive to Cressensac.—A practical farmer, that has the largest owen I had met with, gave me the following account:—they fatten with maize, but, in order to render it tender, pour boiling water on it, cover it up close, and give it to the cattle the same day; and in this method it is a most excellent fattener, both of oxen and poultry. But in order to make them fatten sooner and better, this samer gives them, every night, and sometimes of a morning, a ball of pork-grease, as large as an apple; he says this is

both physic and food, and makes them thrive the better.

To Souillac.—Fat their oxen here also with raves, and give them also to lean beasts; the master of the post town where we stopped says, that he sent last year to Paris, four raves that weighed 100lb. They soil their oxen with crops of the vicia latharoides, and of the lathyrus setisfolius; of these plants he spoke so highly, when given in the soiling way, in the stable, that he said the oxen became so fat that they could not get out of the stable if they were not worked. He shewed me some oxen that did not allow a doubt of the truth of what he said, for they were as sat as bears. The said of hog's grease being given, was here confirmed; it is given to increase the appetite, and answers so well, that the beasts perfectly devour their food after it, and their coats become smooth and shining. The most sattening food they know for a bullock, is walnut oil-cake. All here give salt plentifully, to both cattle and sheep, being but 1st a pound. But this practice is, more or less, universal through the whole kingdom.

Cabors.—Nearly all the draft cattle are mules, and yoked as oxen in England, only collars to the yoke instead of bows. Cows and oxen all cream coloured; very good, and

in fine order.

LANGUEDOC.—Touloufe.—Very fine cream-coloured horned oxen; a pair good working ones fell at 25 louis.

St. Gaudents.—Price 120 livres, (51. 5s.); in the winter kept in stables, and fed

upon hay.

Bagnere de Luchon.—Every parish in these mountains has common pastures for their tattle and sheep, and each inhabitant has a right to send as many as they can feed in winter. They are on the mountain three or four months, under the care of people who milk the cows, goats, and ewes, and give the proprietor, at the end of the period, two cheeses of eighteen pounds for each cow; or four goats; or ten ewes; the price of the cheese is ss. the pound; but 10s. at a year old, and the overplus, if any, is their reward. A cow is reckoned to pay above 2 louis a year, valuing the cals, as they do, at a louis. A pair of cows, stout enough to be worked, sell as 10 to 12 louis; and a pair of oxen 12 to 15 louis.

BASQUE.—Informed by a gentleman, at Bagnere de Luchon, that the mountains in this province afford a very great supply of food, in summer, for cattle, which are sent to winter on the landes of Bourdeaux, where they just get a living on weeds, rough grass, branches of trees, &c.; and that they pay only \$f. a head for wintering these cattle, which is perfectly incredible; but I note it as reported. He also informs me, that those

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mountains of Balque, and also of Navarre, breed most of the oxen that I saw in Limou-

fin; they are fold thither calves; and are all cream-coloured, or yellowish.

LANGUEDOC.—Pinjean to Montpelier.—Ploughing with fine large oxen, in good order; fome cream-coloured, others deep red; middling horns. The fame breed has been found all the way, almost from the Loire to Barcelona; and from Calais to the Loire, variations of the short-horned Alderney, or Norman cow.

BEARN. - Navarens. - Cream-coloured cows, 100 livres to 120 livres.

GASCOION.—St. Palais to Anspan.—In 1786, on these mountains, the scarcity of forage being very great, they cut much fern and made hay of it, and it answered well; horses, mules, and young cattle, eat it freely; but it was cut early. Through this country, and nearly to Bayonne, they fatten oxen with raves, which they cultivate carefully for an after-crop. They answer perfectly well, without other food being given; when the raves are done, they sometimes give maize-flour, but dry, knowing nothing of the Limousin method.

Port St. Marie. - Very fine cream-coloured oxen.

Aguillon .- Ditto, very fine and beautiful.

Tonnium to La Morte Landron.—As we advance on the Garonne, the oxen are yet finer; meet common ones at 600 livres and 700 livres the pair; but some very fine that rise to 1000 livres, and 1200 livres, (521. 10s.) as they are in the plough; all are however, in fine order, and many fat. Breed their own cattle; a pretty good cow fells at 250 livres; harness and work them as oxen, but gently while they give

milk.

La Réale.—Work their cows: put oxen to work at three years old, and keep them to it four, eight, and even ten years, according as they are found fit for it. Rise in price to 1200 livres the pair. The least weight they are put to draw, is 20 quintals (a ton English) a pair; but good oxen draw 30 quintals with ease: all harnessed by the horns; they are fed now upon maize leaves, which are so excellent a food for them, that it is fown in succession thickly for mowing for solling. Give also at present vine leaves, which are very good food. See them shoe an ox; they are fastened by the horns in a shoeing stall, and listed from the ground, if wanted, by two broad bands of hemp, that pass under the belly. The shoe turns over the toe, or hoof, as in England; shoe for ploughing as well as for the road.

Barfac .- Oxen, through all this country, where they are found fine, are dreffed as re-

gularly every day as horfes.

Angoumois.—Barbefieux to Petignac.—Cream-coloured oxen; 20 louis to 25 louis the pair.

POITOU. - Poitiers. - Red-coloured oxen, with a black tinge in the head; the fign of

the Poitou breed.

Chateaurault.—Good cream-coloured and red oxen, but they have declined fince Bourdeaux. The good ones here fell at 25 louis the pair. They plough with a pair,

without driver or reins.

Amboife.—Cream-coloured, and some blackish; and, which shews we are got to the Loire, some Norman ones, with mixtures. This great river is the separation of breeds in a remarkable manner. All the way from Tours, to Blois, they raise raves for cows and oxen, but never hoe them; and the scale not at all respectable.

Petiviers. - Cows quite the Norman breed, and the earth tilled by horses.

ISLE OF FRANCE.—Liancourt.—Exceedingly deficient. Some poor ill fed cows upon the commons were all that I faw, except the Dutchess of Liancourt's dairy of Swiss cows.

Of

Of oxen and fatting beafts they have none. Very fine fat beef appeared at table which

came from Paris, I think.

Braffeufe.—Madame la Viscountesse du Pont's dairy of cows sed entirely with lucerne, and the butter excellent; I admired it much, and sound the manufacture quite different from the common method. The milk is churned instead of the cream. Her dairy maid is from Bretagne, a province samous for good dairy-maids. The evening's milk and the morning's are put together, and churned as soon as the latter is milked; the proper quantity of salt is added in the churn, and no washing or making in water, which these dairy-maids hold to be a very bad method. Finer butter, of a more delicate slatent

your, was never taited, than procured by this method from lucerne.

Comerle en Vexin.—'I his part of the province is famous for fatting calves for the Paris market. I had gathered fome circumstances at Marcone, and they were confirmed here. All is known at l'aris under the name of Pontoise veal, but it comes chiesly from this country. The farmers here are mostly, if not all, in the system of suckling. The cows are of the Norman short-horned breed, nearly resembling our Alderney; those of three confiderable farmers, whose herds I viewed, were so unceptionably. The management of their cows is to keep them tied up constantly, as far as food is concerned, but turned out every day for air and exercise, during which time they pick up what the bare pastures vield. Their food is given in the houses, being soiled on lucerne, sainfoin, or clover, mown fresh every day, while they give milk, but hay and straw in winter. The calves also are, in general, tied up in the same house; those I saw, both cows and calves, were all littered; but they feemed to have fo little attention to keep them clean, that I enquired the reason; and was told, that they are sometimes suffered to rest on their dung till it rifes high, by the addition of fresh straw, but that no inconvenience is found from it. Having been affured that they fed their calves with eggs, for giving reputation to the veal of Pontoife, I enquired into the truth of it, and was affured that no fuch practice was known; and that the reason of the superiority of the veal of Pontoile, to that of Normandy, from which province most of the other calves come, was simply that of making them fatter by longer fucking; whereas the Norman custom was to feed them with skim milk. In this country of the Vexin, they are in the cuftom of keeping them till they are of a large fize: I faw fome of four months old, valued at 4 louis each, and that would be worth 5 louis in another month; fome have been fold at 6 louis; and more even than that has been known. I felt one calf that fucked the milk of five cows. It was remarkable to find, that the value of many fatting calves I examined was nearly what it would be in England; I do not think there was 5 per cent. difference. They never bleed them to whiten the flesh, as is done with us. Some of the farmers here keep many cows; Monf. Coffin, of Commerle, has forty, but his farm is the largest in all the country; the country people fay it is 20,000 livres a year.

PICARDIE.—St. Quintin.—All the way from Soissons hither, the cattle are some black,

and black and white, which is very uncommon in France.

Cambray to Bouchaine.—Feed their cows, and fatten oxen and cows, on carrots. They reckon that no food is fo good, for giving much and excellent milk. For fattening an ox they flice them into bren: but they remarked, that in fattening, the great object was to change their food; that a middling one, with change, would go further than a good one without; but in such change, carrots rank very high.

FLANDERS.—Valenciennes to Orchies.—Finding that they fed cattle with linfeed-cakes, I inquired if they used any of their immense quantity of coleseed-cakes for the same use? And was assured that they did; and that a beast, with proper care, would fatten on them, though

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though not so well as on linseed cake; also that they seed their sheep with both. For fattening beasts and for cows, they dissolve the cake in hot water, and the animal drinks, not eats it, having various other food given at the same time, as hay, bran, &c.; for there is no point they adhere to more than always to give variety of soods to a fattening beast. Their cows, of which they are very proud, are Dutch; not large, though bigger than the Norman breed; they are red, or red and white, with a few black; the horns short and curled inwards, forward. They are fed in the house the whole year round, but kept clean with the greatest attention. They boast of their butter being equal to any in the world; and I was assured of a cow that gave 19 livres (16s. 7 d.) in butter every nine days. They feed them with potatoes, which give excellent butter; and with turnips, which give as bad. Cows sell at 150 livres.

To Lille.—All the cattle tied up in houses, as they affured me, the year round; I inquired into their motives for this, and they afferted, that no practice is, they think, so wasteful as letting cattle passure abroad, as much food, or perhaps more, being spoiled than eaten; the raising dung also is a great object with them, which stands still, to their

great lofs, when cattle are abroad.

Their cows were now (November 4,) feeding on turnips and cabbages. In every cow house I saw a tub of bran and water, which is their principal drink; boiled with bran in it is greatly preferred, but some give it without boiling. Such minutiæ of practice seems only possible on a little farm, where the hands are very numerous compared with the quantity of land; but it merits experiment to inquire, how far boiling all the water drank in winter can answer. Without experiment, such questions are never understood. All the cows I saw were littered, but the sloors being flat, and without any steep at the heel, they were dirty.

NORMANDIE.—Neufchatel.—There are dairies here that rife to fifty cows, the produce of which in money, on an average, rejecting a few of the worst, is 80 to 100 livres, including calves, pigs, butter, and cheese. In winter they feed them with straw; later with hay; and even with oats and bran; but not the least idea of any green winter food. The vale from hence to Gournay is all full of dairies, and some also to Dieppe. One

acre of good grafs feeds a cow through the fummer.

To Rouen .- Good cows give three gallons of milk a day; they are of the Alderney

or Norman breed, but larger than fuch as come commonly to England.

Pont au Demer.—Many very fine grafs inclosures, of a better countenance than any I have seen in France, without watering; grazed by good Norman cows, larger than our Alderneys, but of the same breed; I saw thirty-two in one sield. In the height of the season they are always milked three times a day; good ones give three English gallons of milk a day. A man near the town that has got cows, but wants pasture, pays 10/s a day for the pasturage of one, which is a very high rate for cattle of this size.

Pont l'Eveque.—This town is fituated in the famous Pay d'Auge, which is the district of the richest pasturage in Normandy, and indeed of all France, and for what I know of all Europe. It is a vale of about thirty-five miles long, and from half a mile to two milesover, being a stat tract of exceedingly rich land, at the bottom of two slopes of hills, which are either woods, arable, or poor land; but in some places the pasture rises partly up the hills. I viewed some of these rich pastures, with a gentleman of Pont l'Eveque, Monssieur Beval, who was so good as to explain some of the circumstances that relate to them. About this place they are all grazed by fatting oxen: the system is nearly that of many of our English counties. In March or April, the graziers go to to the fairs of Poitou and buy the oxen lean at about 240 livres (101. 10s.): they are generally cream-coloured; horns of a middling length, with the tips black; the ends of their tails black;

and tan coloured about the eyes, which are the distinctions of the Poitou breed. At Michaelmas they are fat; and sent to the fair at Poiss, that is Paris: such as are bought in at 240 livres lean, are sold fat at 350 to 400 livres. (151. 6s. 3d. to 171. 10s.) An acre of good pasturage carries more than one of these beasts in summer, besides winter fattening sheep. This acre is four verges, each forty perches, and the perch twenty-two feet, or a very little better than two English acres. The rent of the best of these pastures (called berbages here) amounts to 100 livres (41. 7s. 6d.) per Norman acre, or nearly 21. 3s. 9d. the English; the tenant's taxes add 14 livres (12s. 3d.) or 6s. 14d. per English acre. The expences may be stated thus:

					liv.
Rent,	•	•	•	•	100
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Suppose 11 c	x fattened	, bought	at 240	livres,	360
Interest of the	at total.			•	474
					497
Sa	у,	•	-		500
Ox and an h	alf fat, at	375 livro	es	•	562
Expences,	•	•		•	500
Profit,	•	•		· -	62

Which is about 11. 6s. 6d. per English acre prosit; and will pay a man well, the interest of his capital being already paid. As these Norman graziers are generally rich, I do not apprehend the annual benesit is less. In pieces that are tolerably large, a stock proportioned to the size is turned in, and not changed till they are taken out fat. These Poitou oxen are for the richest pastures; for land of an inferior quality, they buy beasts from Anjou, Maine, and Bretagne. The sheep sed in the winter do not belong to the graziers, but are joisted; there is none with longer wool than sive inches, but the pasture is equal to the sinest of Lincoln. In walking over one of these noble herbages, my conductor made me observe the quantity of clover in it, as a proof of its richness; it was the white Dutch and the common red: it is often thus—the value of a pasture depends more on the diadelphia than on the triandria family.

To Lificux.—This rich vale of the Pay d'Auge, some years ago, was fed almost entirely with cows, but now it is very generally under oxen, which are found to pay better.

Whatever cows there are, are milked three times a day in fummer.

To Caen.—The valley of Corbon is a part of the Pay d'Auge, and said to be the richest of the whole. In this part, one acre, of one hundred and fixty perches of twenty-sour seet, or about (not exactly) 2½ acres English, sattens two oxen. Such rents are known as 200 livres (31. 178. per English acre) but they are extraordinary: the proportions here are rather greater, and more profitable than in the former minute. They buy some beasts before Christmas, which they keep on the pasturage alone, except in deep snows; these are forwarder in spring than such as are bought then, and satten quicker; they have also a few sheep. There are graziers here that are landlords of 10,000 livres, and even 20,000 livres a year, yet 100 acres are a large farm.

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Bayeux.

Bayeux.—The rich herbages about this place are employed in fattening oxen, of the Poitou breed, as before; bought lean, on an average, at 200 livres, and fold fat at 350 livres. Their cows are always milked thrice a day in fummer; the best give twelve pots

a day, or above four gallons, and fell at 7 or 8 louis each.

Ifigny to Carentan.—Much falt marsh, and very rich; they fat oxen; but I was surprised to find many dairy cows also on these very rich lands. A cow they say sometimes pays 10 louis in a year; giving eight pound of butter in a week, at 20st to 30st a pound at some seasons, but now (August 25) only 10st which they say is ruinously cheap. All are milked thrice a day. Others informed me that a cow gives ten pound a week, at the average price of 15st. These cows resemble the Sussolk breed, in size and brindle colour, round carcase, and short leg; and would not be known from them but by the horns, which are of the short Alderney fort. The profit on fattening a cow here they reckon at 72 livres, and an ox of the largest size 300 livres. They have also a common calculation, that dairy cows feed at the expence of 8st a day, and yield 20st leaving 12st. profit. It is remarkable, and cannot be too much condemned, that there are no dairies in this country: the milk is set and the butter made in any common room of a house or tottage.

Carentan.—Many oxen are bought at Michaelmas, and kept a year. They eat each in the winter three hundred bottes of hay, or 50 livres, but leave 150 livres profit, that is, they rife from 300 livres to 450 livres. Cows pay, on an average, 100 livres, and are kept each on a vergé of grafs, the rent of which is from 30 to 40 livres. As the vergé is 40 perches, of 24 feet, or 23,040 feet, it is equal to 96 English square perches, which space pays 100 livres, or per English acre 71. 5s. 3d.; but all expences are to be deducted, including what the wintering costs. Here they have milk-rooms. They work oxen all the way from Bayeux, in yokes and bows, like the old English ones, only single

instead of double.

Advancing; cows fell so high as 10 and 12 louis. Many are milked only twice a day: good ones give 14 or 14 pound of butter a day. They remark that cows that give the largest quantity of milk do not yield the largest quantity of butter. Fat cows give much richer milk than others.

Again; a good cow gives fix pots of milk a day, which pays in butter 24/. Three thousand livres profit has been made by fatting thirty cows. A great number of young

cattle all over the country, especially year olds.

BRETAGNE.—Rennes.—Good oxen of Poitou, 400 livres to 600 livres the pair; they are harnaffed by the horns. A good cow, 100 livres. Milk but twice a day.

Landervisier.—I was at the fair here, at which were many cows; in general of the Norman breed, but small: one of the size of a middling Alderney, 4 louis, but said to be dear at present. Colour, black and white, and red and white.

Quimper. - Many black and white small, but well made, cows on the wastes here; a

breed somewhat distinct from the Norman; different horns, &c.

Nantes.—Many Poitou oxen; cream coloured; black eyes, tips of horns, and end

of tail; about fifty or fixty stone fat; all yoked by the horns.

Nonant.—Much rich herbage; an acre of which feeds two oxen to the improvement of 160 livres. Many cows are fattened also; and some milked always three times a day in summer.

To Gacé.—Some very fine cream coloured oxen, of fixty stone or more; but in ge-

neral, red and white, not Poitou.

ISLE OF FRANCE.—Nangis.—Cows fell at 4 louis or five louis; oxen, half fat, from 8 louis to 11 louis. They come from Franche Compté.

CHAMPAGNE.

CHAMPAGNE.—Mareuil.—Monf. Le Blanc's Swifs cows give eighteen pints, of Paris (the Paris pint is an English quart) of milk per diem, and hold their milk remarkably long. He gave 40 louis for a bull and a cow.

LORAINE. - Braban. - A fmall cow, 75 livres.

ALSACE. - Strafbourg. - A cow, 6 louis; an ox the fame. Islenbeim. — Cows improve as you approach Franche Compté. Befort. - Good oxen, red and cream coloured, to 25 louis a pair.

I/le.—Here much finaller; and they fay the fine ones I have feen are from the mountains on the frontiers of Swifferland.

BOURGOGNE. - Dijon to Nuys .- Small oxen in this country, and yoked by the horns. Autun to La Maison de Bourgogne. - Good oxen drawing by the horns.

AUVERGNE. - Clermont. - Salt given twice a day to cows that give milk. In the mountains the price of cows, 150 livres to 200 livres; a few, 300 livres: an ox, from 200 livres to 450 livres.

Izzir .- A pair of good oxen, 16 louis to 18 louis, which will draw two thousand pounds. The Poitevins will buy only red cattle in Auvergne, having remarked that they fatten eafier *.

VIVARAIS. - Costerons. - A small cow, 4 louis.

PROVENCE.—The cities of Aix, Marfeilles, and Toulon, are fed by oxen, cows, and

sheep, from Auvergne, which come every week; a few from Picdmont.

Tour d'Aigues. - A pair of good oxen, 18 louis or 20 louis. When they have done working, they are fattened with the flour of the lathyrus faticus, &c. made into paste, and balls given fresh every night and morning; each ox, two or three balls, as large as a man's fift, with hay.

Observations.

FROM the preceding notes it appears, that in Normandy, the Bas Poitou, Limoufin, Quercy, and Guienne, the importance of cattle is pretty well understood; in some districts very well; and that in the pasturage part of Normandy, the quantity is well proportioned to the richnels of the country. In all the relt of the kingdom, which forms much the greater part of it, there is nothing that attracts notice. There would, in eighteen-twentieths of it, be fcarcely any cattle at all, were it not for the practice of ploughing with them. There are some practices noted, which merit the attention even of English farmers - 1. The Limosin and Quercy methods of fattening, by means of acid food.---It is remarkable, that I have found hogs to fatten much better with their food become acid, than when used fresh t. But in England no experiments, to my knowledge, have been made, on applying the same principle to oxen; it is, however, done in the Limousin with great success. The subject is very curious, but the brevity necessary to a traveller will not allow my pursuing it at present. ______2. The practice in Flanders, and, in some degree, in Quercy, &c. of keeping cows, oxen, and all forts of cattle, confined in stables the whole year through.—This I take to be one of the most correct, and probably one of the most profitable methods that can be pursued; fince, by means of it, there is a conflant accumulation of dung throughout the year, and the food is made to go much farther. _____3. Milking well-fed cows thrice a day, as in Normandy.—Experiments should be made on the advantages of this practice, which will probably be found not inconfiderable; it is never done, either in England nor in Lombardy.

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[·] See alfo Vonges D' Auvergne, par Monf. Le Grand D'Aufy, 8vo. 1788. p. 273.

⁺ Annals of Agriculture, vol. i. p. 340.

Except in the provinces I have named, the management of cattle in France is a blank. On an average of the gdom, there is not, perhaps, a tenth of what there ought to be: and of this any ... must be convinced, who reslects that the courses of crops throughout the kingdom are calculated for corn only; generally bread corn; and that no attention whatever is paid to the equally important object of supporting great herds of cattle, for raifing manure, by introducing the culture of plants that make cattle the preparative for corn, instead of those barren fallows which are a disgrace to the king-This fystem of interweaving the crops which support the cattle, among those of corn, is the pillar of English husbandry; without which our agriculture would be as miserable and as unproductive as that of France. The importance of grass in such views, is little understood in France; but in proportion as corn is the ultimate object, should be the attention that is paid to grass. England, by the immense extent of her pastures, has a prodigious preparation always ready for corn, if it was demanded. He who has grass can, at any time, have corn; but he who has corn, cannot at any time have grafs, which demands one or two years' accurate preparation. In proportion to your grass, is the quantity and mass of your improvements; for few soils, not laid to grass, are at their last stage of improvement. The contrary of all this takes place in France; and there is little appearance, from the complexion of those ideas which are at prefent fashionable there, that the kingdom will be materially improved in this respect: the prejudices in favour of small farms, and a minute division of property, and the attention paid to the pernicious rights of commonage, are mortal to fuch an improvement; which never can be effected but by means of large farms, and an unlimited power of enclosure.

Horfes.

This is an animal about which I have never been folicitous, nor ever paid much attention; I was very early and practically convinced of the fuperiority of oxen for most of the works of husbandry; I may, indeed, say for all, except quick harrowing: and if oxen trot fix miles an hour with coaches, in Bengal, which is the fact, they are certainly applicable to the harrow, with proper training. To introduce the use of oxen in any country, is so important an agricultural and political object, that the horse would be considered merely as administering to luxury and war. The very sew minutes I took, I shall insert in the order they occurred.

Limousin.—This province is reckoned to breed the best light horses that are in the kingdom; and some capital regiments of light horse are always mounted from hence; they are noted for their motion and hardiness. Some miles to the right of St. George, is Pampadour, a royal demesne, where the King has a baras (stud): there are all kinds of horses, but chiefly Arabian, Turkish, and English. Three years ago four Arabians were imported, which had been procured at the expence of 72,000 livres (31491.); and, owing to these exertions, the breed of this province, which was almost spoiled, has been much recovered. For covering a mare, no more is paid than 3 livres, which is for the groom, and a feed of oats for the horte. They are free to fell their colts to whom they please; but if they come up to the King's standard of eight, his officers have the preference, on paying the fame price offered by others; which, however, the owner may refuse, if he pleases. These horses are never saddled till six years old, and never eat corn till they are five; the reason given is, that they may not hurt their eyes. They pasture all day, but not at night, on account of the wolves, which abound fo in this country as to be a nuifance. Prices are very high; a horfe of fix years old, VOI .. 1V. 3 Q

a little more than four feet fix inches high, fells for 70 louis; and 15 louis have been offered for a colt at one year old. The pastures are good, and proper for breeding horses.

Cahors.—Bean-straw they reckon excellent for horses, but not that of pease, which is too heating.

Agen.—Meet women going to this market, loaded with couch roots to fell for feeding horses. The same practice obtains at Naples.

SAINTONGE.—Monlieu.—Never give chaff to their horses, as they think it very

bad for them.

ISLE OF FRANCE.—Dugny.—Monf. Cretté de Palleul has found cut chaff one of the most economical foods that can be given to horses; and his machine for cutting it is by far the most powerful one that I have any where seen. It is a mill turned by a horse; the cutting instruments are two small cylinders, that revolve against each other, circular cutting hoops being on their surface, that lock into each other; those of one, plain, but of the other, toothed; just above them is a large trough or tray, to hold a truss of straw, which weighs twelve pounds, and the machine cuts it into chass in three minutes, without putting the horse out of his pace; and in two minutes, by driving him quicker; a man attends to spread the straw equally in the tray, as it is sucked in by the revolving cylinders; a boy driving the horse. One of the machines common in England, for dressing corn, is at the same time turned: the whole is in a building of eight yards square.

NORMANDY. - I/igny. - The rich herbages here are fed, not only with bullocks and

cows, but also with mares and foals.

Carentan.—Colts, bred here, fell for very high prices, even to 100 louis at three

years old; but in general good ones from 25 to 30 louis.

BRETAGNE.—Rennes.—Good horses sell at 150 livres. The author of the Considerations fur le Commerce de Bretagne, says, p. 87, that he has seen many markets in the bishopricks of Rennes and Nantes, where the best horse was not worth 60 livres.

Morlaix.—See in this vicinity, for feveral miles, some fine bay mares with soals.

Auvergnac.—Informed that Bretagne exports twenty-four thousand horses, from 12 to 25 louis each; and the country that chiefly produces them, is from Lamballe to the sea beyond Brest.

Alsace.—Strasbourg.—A good farm house, 12 louis. To Schelestadt.—Clover mown for soiling all the way.

The Norman horses for draught, and the Limousin for the saddle, are esteemed the best in the kingdom. Great imports have been made of English horses for the coach and saddle. It is no object to lessen that import, for their own lands can be applied to much more profitable uses than breeding of horses. The accommission were great enemies to the use of oxen, and warm advocates for that of horses becoming general; one of the many gross errors which that fanciful sections were guilty of.

Hogs.

GASCOIGN.—St. Palais to Anspan.—See many fine white, and black and white hogs; they are fed much on acorns, but are fattened throughout this country on maize ground to flour, and boiled with water to a paste, and given fresh, milk warm, every day. Some on beans. They are turned a year old when put up to fatten; rise to the weight of two or three quintals. These are the hogs that surnish Bayonne with the hams and bacon, which are so famous all over Europe. The hams sell at 20s, the pound.

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I have referved this minute, from some others of little consequence, for the opportunity of remarking, that, in England, the old custom of feeding hogs with warm food, is totally discontinued; but it well deserves experiment, whether it would not answer in fattening, and also in the nourishment of sows and pigs. Such experiments are difficult to make satisfactorily, but yet they ought to be made by some persons that are able. Warm food in winter, regularly given, I should suppose, must be more fattening than that which is cold, and, in bad weather, half frozen.

CHAP. XXV .- Of the Culture of various Plants in France.

IN the course of my inquiries into the French agriculture, I made some minutes on various articles, that do not merit a separate chapter assigned to each; I shall therefore introduce them to the reader alphabetically. It may be of use to suture travellers to know what articles are cultivated in that kingdom, that they may give to each such an attention as may suit their purpose.

Almonds.

PROVENCE.—Aix.—More subject to accidents than olives; sometimes three, sour, and five bad crops to one good. Olives flour in June, but almonds in February, and consequently subject to froits. The produce of a good tree is commonly 3 livres.

Tour d'Aigues. - Do not yield a good crop oftener than once in ten years. Price, 36 to 40 livres the quintal: four and a half quintals in the shell yield one clean: the price has been 70 livres. Price of the pistachio almond, 6 livres the sisteen pound in the shell. Some few fine almound trees will give a quintal in the shell. They are a most hazardous culture, by reason of the fog that makes them drop; the worm that eats; and the frost that nips.

Beans.

Soissonois.—Coucy.—In the rich lands cultivated, in the course of, 1, beans; 2, wheat, remark now (October 31) some beautiful curled and luxuriant pieces of wheat, which, from the beans among it, appear to have been sown after this crop.

ARTOIS.—Lillers to Bethune.—Many beans through all Artois, in drills at twelve or fourteen inches, very fine and very clean; the culture is as common and as good as in Kent, and they have a much richer foil. Wheat is fown after mustard, slax, and beaus; and is better after beans than after either of the other two crops.

ALSACE.—Wiltenbeim to Strafbourg.—Many pieces; good and very clean. Produce, fix facks (of one hundred and eighty pound of wheat) per arpent of 24,000 feet (twenty-eight bushels per English acre).

Schelestadt. - Produce, fix to eight facks, at 7 to 12 livres, (seven at 9 livres is 41. 7s.

per English acre).

The culture of beans is by no means so common in France as it ought to be; they are a very necessary assistance on deep rich soils in the great work of banishing fallows; they prepare on such soils better than any other crop for wheat, and are of capital use in supporting and sattening cattle and hogs.

Broom.

Bretagne.—Rennes.—The land left to it in the common course of crops. It is cut for faggots; fold to the bakers, &c.

3 9 2

Merlaix.

Morlaix.—Cultivated through all this country, in a very extraordinary system; it is introduced in a regular course of crops, and left three or sour years on the land; at which growth cut for taggots, and forms the principal suel of the country. It is a vast growth, much superior to any thing I ever saw; six or seven feet high, and very stout; on regular lands, with intervals of two or three sect. Price sometimes of a cord of wood, 30 livres. Does this apologize for such a system?

Breft.—The broom feed is fown among oats, as clover is in other places, and left four years, during all which time it is fed. The faggots of a good journal will fell for 400 livres (141. per English acre). The faggots weigh fifteen pound, and fell fifty for 9 livres to 12 livres, being a three-horse load. It is only within the reach of Brest market that it is worth 400 livres, elsewhere only 300 livres the best. Four years broom improves land so much, that they can take three crops of corn after it.

Bourgogne.—Luzy.—When I left Bretagne, I never expected again to find broom an article of culture; but the ryc-lands of all this country, and there is nothing but rye in it, are left, when exhaulted by corn, to cover themselves with broom, during five years; and they consider it as the principal support of their cattle.

To Bourbon'ancy and BOURBONNOIS. - Moulins. - Much broom through all this dif-

trict of rye-land.

Carrots and Parships.

FLANDERS. — Cambray. — See some sine carrots taken up, which, on inquiry, I sindare for cows. They sow sour pound of seed per arpent; hoe them thrice: I guessed the crop about sour bushels per square rod. An arpent sells, for cattle, at 180 livres, the purchaser taking up (51. 5s. per English acre). After them they dung lightly, and sow wheat.

Orchies to Lille.—The culture here is fingular; they fow the feed at the fame time, and on the fame land, as flax, about Easter; that crop is pulled in July, the carrots then grow well, and the produce more profitable than any other application of the flax stubble. They yield, I guess, from fixty to eighty bushels, and some more, per Eng-

lish acre; but what I saw were much too thick.

Argentan to Bailleul.— Carrots taken up, and guarded, by building in the neatest and most effectual way, against the frost; they are topped, laid in round heaps, and packed close, with their heads outwards; and being covered with straw, in the form of a pyramid, a trench is digged around, and the earth piled neatly over the straw, to keep out the frost. In this manner they are found perfectly secure.

ARTOIS. - Afs to Aras. - A sprinkling of carrots, but none good.

BRETAGNE.—Ponton to Morlaix.—Many parfnips cultivated about a league to the left; they are fown alone and hoed. They are given to horses, and are reckoned so valuable, that a journal is worth more than one of wheat. Nearer to Morlaix, the road passes a few small pieces. They are on beds, five or six yards broad, with trenches digged between, and on the edges of those trenches a row of cabbages.

Morlaix.—About this place, and in general through the bishoprick of St. Pol de Leon, the culture of parsnips is of very great consequence to the people. Almost half the country subsists on them in winter, boiled in soup, &c. and their horses are generally fed with them. A horse load of about three hundred pounds tells commonly at 3 livres; in scarce years, at 4 livres; and such a load is good food for a horse siteen days. At fixty pounds to the bushel, this is sive bushels, and 2s. 74d. for that is 64d. per bushel of that weight. I made many inquiries how many loads on a journal, but

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no fuch thing as information tolerably to be depended on; I must therefore guess the present crop, by the examination I made of many, to amount to about three hundred bushels, or three hundred and fifty per English acre. The common affertion, therefore, that a journal of parsnips is worth two of wheat, seems to be well sounded. The ground is all digged a full spit deep for them; they are kept clean by hand-weeding very accurately, but are left, for want of hocing, beyond all comparison, too thick. They are reckoned the best of all foods for a horse, and much exceeding oats; bullocks fatten quicker and better on them than on any other food; in flort, they are, for all forts of flock, the most valuable produce found on a farm. The foil is a rich deep friable fandy loam.

Landernau to Rreft.—The culture of parsnips here declines much, but I saw a few pieces; one was weeding by five men, crawling on their knees. Fatten many horses, by feeding them with cabbages and parfnips boiled together, and mixed with buckwheatflour, and given warm. They have a great pride here in having fat horses. Many other districts in France, besides Bretagne, possess the right soil for parsnips; and many more, befides Flanders, that for carrots; but they are no where elfe articles of common culture. Parsnips are not cultivated in England; but carrots are in Suffolk, with great fuccess, and all the horses in the maritime corner of that county sed with them. I have, in the Annals of Agriculture, given many details of their culture and uses. Carrots fucceed well on all dry foils that are fix inches deep; but for large crops, the land should be a foot deep, rich and dry. The extent of such in France is very great, but this general profitable use not made of them.

Cabbages.

FLANDERS .- Orchies to Lille - The kale, called here choux de Vache, is common through this country; it never cabbages, but yields a large produce of loofe reddiff leaves, which the farmers give to their cows. The feed is fown in April, and they are transplanted in June or July, on to well dunged land, in rows, generally two feet by one foot: I faw fome fields of them, in which they were planted at greater distances. They are kept clean by hoeing. They are reckoned excellent food for cows; and the butter made from them is good, but not equal to that from carrots.

NORMANDIE.—Granville to Avranches.—In the gardens of the cottages, many cab-

bage trees five and fix feet high.

BRETAGNE. - St. Bricux. - Many fown here on good land, on wheat stubbles, for felling plants to all the gardens of the country, and to a diffance. I do not fee more than to the amount of a journal in one piece; which, in September, I must have done, had they possessed any cabbage culture, as represented to me, worth attention. They first clean, and then plough the wheat stubbles, and chop and break the surface of the three feet ridges fine, and then fow. The plants are now (September 7) about an inch. high, and fome only coming up.

Morlain.—They have some crops that are much more productive than their turnips,

but planted greatly too thick: they are given to cows and oxen.

ANJOU. - Migniame. - The choud' Anjou, of which the Marquis de Turbilly speaks, is not to be found at present in this country; they preser the chou de Poitou. which is a fort. of kale, and produces larger crops of leaves than the chou d' Anjou. Monf. Livonniere gave me me fome feeds, but by miltake, they proved a bad fort of race, and not comparable to our turnips, as I found by fowing them at Bradfield.

ALSACE. - Saverne to Wiltenheim. - Many cabbages, but full of weeds.

Strafbourg.—Crops to a great weight, but only for four crout.

Schelestar.—The quantity increases between Benfeldt and Schelestar. Their culture is, to sow the feed on a bed in March, covered with mats, like tobacco, and transplant in June, two thousand to three thousand plants on an arpent; they make a hole with a spade, which they fill with water, and then plant; they never horse-hoe, yet the distance would admit it well. They are in fize ten pounds or twelve pounds, and some twenty pounds; the hearts are for sour-crout, but the leaves for cows. An arpent is worth 303 livres (20l. 15s. 10d. per English acre); but carriage to a town is to be deducted.

The culture of cabbages for cattle, is one of the most important objects in English agriculture; without which, large stocks of cattle or sheep are not to be kept on soils improper for turnips. They are, in every respect but one, preserable to that root; the only inferiority is, that of cabbages demanding dung on all soils, whereas good land will yield turnips without manuring. Great attention ought to be paid to the sull introduction of these two crops, without which we may venture to predict, that the agriculture of France will continue poor and unproductive, for want of its due stock of cattle and sheep.

Clover.

ISLE OF FRANCE.—Liancourt.—Never cultivate it for its place in rotation, but merely for forage like lucerne; have a barbarous cultom of fowing it without tillage on wheat stubbles, and it lasts so sometimes two years.

ARTOIS.—Recouffe.—Monf. Drinkbierre, a very intelligent farmer here, affured me, that clover exhausted and spoiled the land, and that wheat after it was never so good as after a fallow; but as the clover is sown with a second, and even a third corn crop, no wonder therefore that it souls land.

I could add many other notes on this fubject, but will be content to mention, in general, that the introduction of clover, wherever I have met with it, has been commonly effected in such a manner that very little benefit is to be expected from it. All good farmers in England know, from long experience, that the common red clover is no friend to clean farming, if fown with a fecond or third crop of corn. In the course, 1, turnips or cabbages; 2, barley or oats; 3, clover; 4, wheat: the land is kept in garden order. But if after that fourth crop, the farmer goes on and fows, 5, barley or oats; 6, clover; 7, wheat, the land will be both foul and exhausted. In a word, clover is beneficial to the really good and clean farmer only to the extent of his turnips, cabbages, and fallow; and never ought to be fown but on land previously cleaned by those hoeing crops, or by fallow. As to fallow, no Frenchman ever makes it but for wheat, confequently the culture of clover is excluded. I have often feen it fown in this course; 1, fallow; 2, wheat; 3, barley; 4, oats; 5, clover; 6, clover; 7, wheat; 8, oats; and the land inevitably full of weeds. I may venture to affert, that clover thus introduced, or even in courses less reprehensible, but not correct, will do more mischief than good, and that a country is better cultivated without than with it. Hence, therefore, let the men, emulous of the character of good farmers, confider it as effential to good husbandry to have no more clover than they have turnips and cabbages, or fome other crop that answers the same end; and never to sow it but with the first crop of corn; by these means their land will be clean, and they will reap the benefits of the culture without the common evils.

I have read in some authors, an account of great German farmers having such immense quantities of clover, as are sufficient to prove the utter impossibility of a due preparation:

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the poor pe ing thirty p this is more very great; paration these quantities are made a matter of boast. We know, however, in England, in what manner to appreciate such extents of clover.

Chefnuts.

BERRY.-La Marche. - First meet with them on entering La Marche.

Boifmandè.—They are spread over all the country; the fruit are sold, according to the year, from 5/. to 10/. and 15/. the boiseau, which measure will feed a man three days: they rub off the skin; boil them in water with some salt; squeeze them into a kind of paste, which they dry by the fire; they commend this food as pleasant and wholesome. The small ones are given to pigs, but will not satten them so well as acorns, the bacon being soft; when sattened with acorns, they are sinished with a little corn. A chesnut tree gives two boiseau each of fruit on an average; a good one, sive or six. The timber is excellent for building; I measured the area spread by many of them, and found it twenty five feet every way. Each tree, therefore, occupies six hundred and twenty sive feet, and an acre tully planted would contain seventy; at two boiseau each it is one hundred and forty, which, at 10/. is 21. 18s. 4d. and as one of these measures will feed a man three days, an acre would support a man four hundred and twenty days, or source months. It must, however, be obvious, that land cannot be so exactly silled, and that an acre of land would not probably, in common, do for half that number.

La Villeaubrun.—They eat many chesnuts, but do not live upon them, eating some bread also; in which mode of consuming a boiseau, it will last a man five or fix days. Price as above.

Limousin.—Limoges.—Price 7f. to 15f. the boiseau. This food, though general in the country, would not be sufficient alone; the poor therefore eat some rye bread. The comfort of them to families is very great, for there is no limit in the consumption, as of every thing else: the children eat them all day long, and in seasons when there are no chesnuts there is often great distress among the poor—The exact transcript of potatoes in Ireland. The method of cooking chesnuts here, is to take off the outward skin, and to put a large quantity into a boiler, with a handful of salt, and very little water to yield steam; they cover it as closely as possible to keep in the steam: if much water is added they lose their flavour and nourishing quality. An arpent under chesnuts does not yield a product equal to a good arpent of corn, but more than a bad one.

To Magnac.—They are spread over all the arable fields.

QUERCY.—Brive to Noailles.—Ditto; but after Noailles there are no more.

Payrac.→Boil them for their food, as above described.

LANGUEDOC. - Gange. - Many in the mountains, and exceedingly fine chefuut under-wood.

Portou.—Ruffee.—Yields a good crop, to the amount even of 10 livres for a good tree's produce. The poor people live on them. A measure of forty-five pounds has been fold this year at 48/.

BRETAGNE.—Pont Orfon.—On entering this province, these trees immediately occur, for there are none on the Normandy side of the river, that parts the two provinces.

MAINE.—La Fleche to Le Mans.—Many chefinuts, the produce chicily fold to towns; the poor people here not living on them with any regularity: three bushels (each holding thirty pounds of wheat) are a good crop for one tree, and fell at 40% the bushel; this is more than a mean produce, but not an extraordinary one. The number here is very great; and trees, but of a few years' growth, are well loaded.

VIVARAIS.

VIVARALE.—Pradelles to Thuytz.—Immense quantities of these trees on the mountains; it is the greatest chesnut region I have seen in France. The poor people live on

them boiled; and they fell by measure, at the price of rye.

The husbandry of spreading chesnuts over arable lands must unquestionably be very bad; the corn must suffer greatly, and the plough be much impeded. It is as easy to have these trees upon grass land, where they would be comparatively harmless: but the fact is here; as is so general in France, that they have no pastures which the plough does not occupy by turns; all, except rich meadows, being arable. The fruit is so great a resource for the poor, that planting these trees upon lands not capable of tillage by the plough, is a very considerable improvement; the mountains of the Vivarais thus are made productive in the best method perhaps that they admit.

Chicory.

ISLE OF FRANCE.—Dugny.—Monf. Cretté de Paleuel, 1787, had this plant recommended to him by the Royal Society of Paris; in confequence of which, he has made feveral very fuccefsful experiments on it. He has had it two years under cultivation. The feed is fown in March, twelve pounds per arpent (one hundred perches at eighteen feet) on one ploughing, and is harrowed in. It rifes fo thick, as to cover the whole ground, and is mown the fame year once; Monf. Cretté has cut one piece-twice the first year. The following winter he dunged it, at the rate of eight loads of three horses per arpent. The year after, some was cut three times, and some sour; and Mons. Cretté remarks, that the oftener the better, because more herbaceous and the stalks not so hard. He weighed the crop upon one piece, and sound the weight, green,

Of the first cutting, fecond, third,	· · ·	•	•	55,000 18,000 3,000
Per arpent,		•	•	76,000

By making some of it into hay, he sound that it lost three-sourths of its weight in drying, consequently the arpent gave nineteen thousand pounds of hay, or ten tons per English acre. It is so succulent and herbaceous a plant, as to dry with difficulty, if the weather be not very sine; but the hay, he thinks, is equal to that of clover, though inferior to meadow hay. He has used much in soiling, and with great success, for horses, cows, young cattle, and calves; finds it to be eaten greedily by all, and to give very good cream and butter. Monf Cretté's sine dairy of cows being in their stalls, he ordered them to be fed with it in my presence; and they ate all that was given with great avidity. When in hay, it is most preserved by sheep: cows do not in that state eat the stalks so well as sheep. A circumstance which he considers as valuable, is its not being hurt by drought so much as most other plants; and he informs me, but not on his own experience, that it will last good ten years.

I viewed one of his crops, of feven or eight arpents, fown last spring, and which has been mown once; I found it truly beautiful. He fowed common clover and sainfoin among it, and altogether it afforded a very fine sleece of herbage, about eight or nine inches high (October 28) which he intends feeding this autumn with his sheep. He is of opinion that the sainfoin will be quite suffocated, and that the chicory will get the

better of the clover.

PROVENCY.

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PROVENCE. - Vaucluse to Organ. - In a very fine watered meadow, one third of the

herbage is this plant.

I liked the appearance of this plant fo well in France, and was fo perfectly fatisfied with what I faw of it, cultivated by Monf. Cretté de Paleuel, and growing spontaneously in the meadows, that I brought seed of it to England, and have cultivated it largely at Bradfield with such success, that I think it one of the best presents France ever made to this kingdom. I sow it with corn like clover; but it pays well for occupying the land entirely. It will prove, without doubt, a very valuable plant for laying land permanently to grass; and also for introducing, in courses of crops, when the land wants rest for three, sour, or five years. I am much mistaken if we do not in a few years make a much greater progress in the culture of this plant than the French themselves, from whom we borrowed it, will do.

Sheep are faid to be very fond of it *, a fact I have fufficiently proved in Suffolk.— From a passage in an Italian author, who speaks of sowing the wild chicory, I am in doubt whether the French have the honour of being really the first introducers of this

plant †.

Colefeed.

FLANDERS.—Cambray.—Near this town, I met first with the culture of colesed: they call it gozá. Sow the feed thick on a feed-bed, for transplanting; fetting it out on an oat stubble, after one ploughing. This is fo great and striking an improvement of our culture of the fame plant, that it merits the utmost attention; for faving a whole year is an object of the first consequence. The transplanting is not performed till October, and lasts all November, if no frost; and at such a season there is no danger of the plants not fucceding: earlier would however furely be better, to enable them to be ftronger rooted, to withstand the spring frosts, which often destroy them; but the object is not to give their attention to this business till every thing that concerns wheat fowing is over. The plants are large, and two feet long, a man makes the holes with a large dibble, like the potatoe one used on the Essex side of London, and men and women fix the plants, at eighteen inches by ten inches; fome at a foot square, for which they are paid o livres per manco of land. The culture is fo common all the way to Valenciennes, that there are pieces of two, three, and four acres of feed bed, now cleared, or clearing for planting. The crop is reckoned very uncertain; fometimes it pays nothing, but in a good year up to 300 livres the arpent (one hundred perches of twenty-four feet) or 81. 15s. the English acre. They make the crop in July, and by manuring the land, get good wheat.

Valenciennes to Orchies.—This is a more valuable crop than wheat, if it succeeds, but

it is very uncertain. All transplanted.

Lille.—The number of mills, near Lille, for beating colefeed, is furprifing, and proves the immense quantity of this plant that is cultivated in the neighbourhood. I counted

fixty at no great diffance from each other.

Bailleul.—The quantity cultivated through this country immense; all transplanted; it occurs once in a course of six or seven years. Price of the cakes, 3 s. each; they are the same size as ours in England.

ARTOIS .- St. Omers .- Great Hacks of colefeed straw all over the country (August

7th) bound in bundles, and therefore applied to use.

Phytographie Occonomique de la Loraine, Par M. Willemet. 1780. 8vo. p. 57.
 † Ronconi Dizionario D'Agricoltura ofia La Collivazione Italiana. Tom. ii. p. 148.

VOL. IV.

3 R

I should

I should remark, in general, that I never met with colesced cultivated in any part of the kingdom merely for sheep-feed; yet it is an object, so applied, of great consequence, and would be particularly useful in France, where the operose cultures of turnips and cabbages will be long establishing themselves. With this view colesced should be thus introduced:

 Winter tares, fown the beginning of September on a wheat flubble; mown for foiling: then the land ploughed and colefeed harrow-

ed in.

2. Barley, or oats.

3. Clover.

4. Wheat.

Fuller's Thiftle.

ISLE OF FRANCE.—Liancourt.—Very profitable: has been known to amount to 300 livres or 400 livres the arpent (about 14 acre).

Furz.

GASCOIGNE.—St. Palais to Anspan.—A practice in these mountainous wastes, which deserves attention, is their cutting furz when in blossom, and chopping them mixed with straw for horses, &c.; and they find that no food is more hearty or nourishing.

NORMANDIE.—Vologne to Cherbourg.—Throughout this country a feattering of furz fown as a crop, with wheat or barley, as clover is usually fown: the third year they cut it to bruise for horses; and every year afterwards: and it yields thus a produce of 40 livres the vergé, of ninety-six English perch.

BRETAGNE. - St. Pol Leon. - Through all this bishopric the horses are fed with it

bruifed, and it is well known to be a most nourishing food.

The practice here minuted is not absolutely unknown in England; there are many traces of it in Wales, and some other parts of the kingdom. I have been affured that an acre, well and evenly feeded, and mown for horses every year, has yielded an annual produce, worth, on a moderate estimate, 101, but I never tried it, which was a great neglect, in Hertfordshire, for I had there land that was proper for it.

Culture of Hemp and Flax.

PICARDIE.—Montreuil to Picquigny.—Small patches of flax all the way. At Picquigny, a good deal of land ploughing for hemp, to be fown in a week. (May 22.)

QUERCY.—The hemp, in much of this province, is fown every year on the fame fpots; and very often highly manured. This appears to be an erroneous lystem, whereever the lands in general are good enough to yield it.

Cauffade. - Valt quantities near this place, now (Jone 12.), two or three feet by a

LANGUEDOC. - Monrejeau. - Flax now (August 10.) graffing.

Bagnere de Bigore to Lourd. - Never water their flax, only grass it. I saw much with the grass grown through it; if the land or weather be tolerable wet, three weeks are sufficient.

GUILNNE—Port a Legrac.—This noble vale of the Garonne, which is one of the richest districts of France is also one of the most productive in hemp that is to be found in the kingdom.

Agen.(17l. 10s
This is pr

it in more Tonnein or wheat, ployed on

La Ma quintal. Soissoi

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land (551. of knowin last centur land as be ly this is lace, if th loamy clay made of r fown on t in feven c flax had b lish acre). 36 livres t each holdi 3 to four fourteen d

Going ed a great letting at their cultipoles, or being beat caution it

proper sta

Orchics, and even in thread, as works, fo prefer for preceding Lille.—

(15l. 6s.

Agen.

Agen.—Hemp yields ten quintals per carterée, at 40 livres the quintal, poid de table (171. 10s.), which carterée is fown with two hundred and seventeen pounds of wheat. This is probably about 13 English acre.

Aguillon. - The hemp is every where watering in the Garonne; they do not leave

it in more than three or four days.

Tonneins.—The whole country, from Aguillon to this place, is all under either hemp or wheat, with exception of fome maiz; and its numerous population feems now employed on hemp.

La Morte Landron.-It yields ten to twelve quintals, at 36 livres to 45 livres the

quintal.

Soissonois.—Coucy.—Hemp cultivated in the rich vales, in the course,—1, hemp; 2. wheat. It yields five hundred bottes, at 25 livres the hundred, reckoned on the foot

before watering.

S. Amand.—The carterée of land, of one hundred verge of nincteen feet (thirty-fix thousand one hundred feet), under flax, has this year a very good crop, on account of the rainy weather; it has been fold at 1200 livres, or very near the fee-fimple of the land (55l. 11s. 3d. per English acre). This amazing value of flax made me desirous of knowing if it depended on foil, or on management. Sir Richard Weston, in the last century, who has been copied by many scores of writers since, speaks of poor sandy lard as being the best for that flax of which the fine Brussels lace is made; consequently this is made from land abundantly different from what produces the Valenciennes lace, if that affertion were ever true. The foil at St. Amand is a deep moist friable loamy clay, of vast fertility, and situated in a district where the greatest possible use is made of manures; it therefore abounds very much with vegetable mould. Flax is fown on the fame land once in twelve to fifteen years; but in Austrian Flanders, once in feven or eight years. Advancing and repeating my enquiries, I was affured that flax had been raifed to the amount of 2000 livres the carterée (92l. 158. 6d. per English acre). The land is nearly the same as above described, and lets, when rented, at 36 livres the carterée (11. 138. 3d. per English acre). They sow two raziere of seed. each holding fifty pounds of wheat per carterée; and a middling crop of good flax is from 3} to four feet high, and extremely thick. They water it in ditches, ten, twelve, and fourteen days, according to the feason; the hotter the weather, the sooner it is in a proper state of putrefaction. After watering, they always grass it in the common method.

Going on, and gleaning fresh information, I learned that 1200 livres may be esteemed a great produce per carterée; the land all round, good and bad, of a whole farm, letting at 30 livres and selling at 1200 livres. Nothing can shew more attention than their cultivation: besides weeding it with the greatest care while young, they place poles, or forked stakes, amongst it, when at a proper height, in order to p event its being beaten to the ground by rain, from its own length and weight; without this precaution it would be stat down, even to rotting.

Orchies.—A carterée of flax, of forty thousand feet, rises to the value of 1500 livres, and even more (631.18s. 9d. per English acre). They sow such as is intended for fine thread, as soon as the frosts are over, which is in March; but such as is for coarser works, so late as May. Never feed their own flax, always using that of Riga. They prefer for it an oat-stubble that followed clover; and they manure for it in the winter preceding the sowing. Wheat is, in general, better after slax than after hemp.

Lille. Flax in common, is worth 90 livres the centier, or 360 livres the carterce

(151. 6s. 3d. per English acre): this is excluding uncommon crops.

ARTOIS.

ARTOIS.—Lillers.—Flax all through the country, and exceedingly fine. Sow wheat after it.

Bethune.—An arpent of good flax worth more than one of wheat; yet good wheat

is worth 200 livres.

Beauval.—Flax fometimes worth 500 livres the journal (25l. 17s. 11d. per English acre). Hemp does not equal it. They do not water flax here, only spread it on grass or stubbles.

NORMANDY.—Bolbee to Harfleur. Flax not watered, but spread on stubble.

BRETAGNE.—Throughout this province, they every where cultivate flax in patches,

by every family, for domestic employment.

Ancenis.—The culture of flax is generally, throughout the kingdom, as well as in the greatest part of Europe, that of a spring crop; but here it is sown in autumn. They are now working the wheat-stubbles on one ploughing, very sine, with a stout bident-hoe, and sowing them; some is up. It is pulled in August, and wheat sown after it.

Anjou.—Migniame.—They have winter-fown flax all over the country. The value of the crop exceeds that of wheat. They do not water, only grass it; yet admit that

watering makes it whiter and finer.

Turbilly.—Hemp is fown in patches every where through the country; fells at 8f the pound raw; fpun, at 26f and 27f; bleached, at 3cf to 36f. The crop is thirty to forty weights, each fifteen pounds or fixteen pounds per journal, or about 210 livres.

MAINE.—Guesteland.—Through all this country there is much hemp fown every year, on the same spot; spun, and made by domestic fabrics, into cloth for home uses. Spinning is 10st the pound; and it is an uncommon spinner that can do a pound in a

day; in common but half a pound.

LORAINE.—Luncville.—Hemp is cultivated every where in the province, on rich spots; hence there is much of it; and some villages have been known to make a thousand crowns in a year of their thread and linen. If it is wished that the hemp be very sine, they do not water, but only spread it on the grass; but in general water it. Use their own feed, and furnish much to their neighbours; but have that of flax from Flanders. Sow beans among flax for supporting it; others do this with small boughs of trees. Some also sow carrots among their flax; which practice, I suppose, they borrowed from Flanders. Hemp is always dunged; and always sown on the same spots, which sell at the same price as gardens; a common and execrable practice in France. A journal gives on good land, ninety-five pounds, and one hundred and three pounds of soup; price last year, ready for spinning, 16s. the pound; the soup 11s. now higher: also two rezeau of seed (each one hundred and eighty pounds of wheat). The journal equals fixty-five English perches.

ALSACE. Strafbourg. - Product three quintals, at 27 livres the quintal, the arpent

(51. 128. per English acre).

Schelestat.—Produce two quintals, ready for spinning, at 36 livres to 48 livres the quintal (51, 16s, 3d, per English acre). Water it for cordage, but not for linen; grass it only, as whiter.

AUVERONE. - Clermont. - In the mountains; price of hemp, ready to spin, 15 f. to

18/. the pound; fpun, 24/.; fine, 30/.

Izoir.—Produce of hemp, per cartona, one hundred and fifty pounds rough, at 5/6 the pound, which is one hundred and thirteen pounds ready for spinning; but bad hemp loses more. The setterée is eight cartoni, of one hundred and fifty toises, or forty-three thousand.

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quintal, b 120 livres fit for ind 50s. per c in France thousand two hundred feet. Henip grounds fell equally with gardens (111. 118. 6d. per English acre).

Briude.—Hemp yields a quintal raw, per cartona: female is worth 40 livres the quintal, male 30 livres; also eight coups of feed, at 6/. Average produce, 35 livres

or 36 livres in all.

DAUPHINE'.—Loriol.—Chinese hemp succeeds well with Monsieur Faujas de St. Fond, and perfects its seed, which it rarely does in the King's garden at Paris. He thinks it an error to sow it, like other hemp, in the spring; for he is of opinion, that it would seed even in England, if sown in Autumn. He has sound by experiment, that it is excellent for length and strength, if sown thick enough to prevent its spreading laterally, and to make it rife without branching.

PROVENCE.—Marfielles.—Price of hemp; Riga, first quality, 36 livres the quintal; ditto, second quality, 33 livres. Ancona, first quality, 33 livres; ditto, second quality, 30 livres to 31 livres. Piedmont, three group, 26 livres; four group, 28

livres.

From these notes it appears, that hemp or flax is cultivated in small quantities, through every part of France; generally for the uses of domestic manufactures among the lower classes. A very interesting political question arises on those diffused fabrics, and on which I shall offer a few observations under the chapter of manufactures.

Madder.

Alsace.—Strafbourg Fertenbeim.—Much of this plant is cultivated in various parts of Alface, where the foil is very deep and rich, especially on that which they call limonense. from its having been deposited by the river. They dig the land for it three feet deep, and manure highly: the rows are fix to nine inches asunder, and they hoe it clean thrice a summer. The produce of an arpent, of twenty-four thousand feet, is forty quintals green, before drying, and the mean price 6 livres the quintal (161. 128. 6d. per English acre). Such is the account I received at Strasbourg; but I know enough of this plant by experience, to conclude, that such a produce is absolutely inadequate to the expences of the culture, and therefore the crop is probably larger than here stated; not that the low rate of labour should be forgotten.

DAUPHINE'.—Pierc Latte.—Planted here in beds; but it is very poor, and apparent-

ly in a foil not rich enough.

To Orange.—Much ditto; all on flat beds, with trenches between, but weedy and ill cultivated. The price is 27 livres the quintel dry. Some just planted, and the trenches very shallow: dig at three years old. Price 24 livres the quintal, dried in the sun. The roots are small and poor.

• Avignon.—Price 24 livres to 30 livres; but there is no profit if it be under 50 livres. It is three years in the land. Sow wheat after it; but if it were not well dunged the crop is poor. A good deal on flat beds, eight feet wide, with trenches between, two

broad and two deep, which are digged gradually for fpreading on it.

Lille.—An cymena in three years gives five quintals, at 20 livres to 24 livres the quintal, but a few years ago was 50 livres to 70 livres. The expences are very high, 120 livres. At 41. a cwt. which equals a French quintal, madder paid a proper profit for inducing many English cultivators to enter largely it; but falling to 40s. and 50s. per cwt. some were ruined, and the rest immediately withdrew from it. But in France we find they carry on the culture; it is however weakly and poorly done

done; with fo little vigour, that common crops, well managed, would pay much'

Maiz.

The notes I took on the subject of this noble plant were very numerous; but as there is reason to believe that its culture cannot be introduced, with any prospect of

advantage, in this island, I shall make but a few general observations on it.

In the paper on the climate of France, I have remarked, that this plant will not fucceed in common cultivation, north of Luneville and Ruffec, in a line drawn diagonally across the kingdom; from which interesting fact we may conclude, that a considerable degree of heat is necessary to its profitable cultivation, and that all ideas of introducing it in England, except as a matter of curiofity, would be vain. It demands a rich foil or plenty of manure, and thrives best on a friable fandy loam; but it is planted on all forts of foils, except poor gravels. I have feen it on fands in Guienne, that were not rich, but none is found on the granite gravels of the Bourbonnois, though that province is fituated within the maiz climate. The ufual culture is to give two or three ploughings to the land; fometimes one ploughing, and one working with the heavy bident-hoe; and the feed is fown in rows at two feet or two and a half, by one and a half or two; fometimes in squares. Some I have seen near Bagnere de Bigore, in rows, at three fect, and eighteen inches from plant to plant. The quantity of feed in Bearn, is the eighth part, by measure, of the quantity of wheat sown. It is univerfally kept clean by hocing, in most districts, with such attention, as to form a feature in their hulbandry of capital merit. In August, they cut off all that part of the stalk and herbage which is above the ear, for feeding oxen, cows, &c. and it is perhaps the richeft and most faccharine * provender that the climate of France affords: for wherever maiz is cultivated, no lean oxen are to be feen; all are in high order. The crop of grain is, on an average, double the quantity commonly reaped of wheat; about Navareen in Bearn, more than that; and there the price (1787) is 54 f. to 55 f. the measure, holding 36 pounds to 40 pounds of wheat; but in common years 18/, to 20. Whether or not it exhaults the land is a question; I have been affured in Languedoc, that it does not, but near Lourde in Guienne, they think it exhaufts much. Every where the common management is to manure as highly as poslible for it. In North America it is faid to exhauft confiderably t; Montieur Parmentier contends for the contrary opinion 1; wherever I found it, wheat fucceeds it, which ought to imply that it is not an exhaulting crop. The people in all the maiz provinces live upon it, and find it by far more nourishing than any bread, that of wheat alone excepted. Near Brive, in Quercy, I was informed that they mix one-third rye, and two thirds maiz to make bread, and though yellow and heavy, they fay it is very good food. A French writer fays, that in Breffe, maiz cakes coft nine and two thirds deniers the pound, but that a man cats double the quantity of what he does of bread made of wheat §. A late author contends, that it is to be classed among the most wholesome articles of human food ||.

Every of New York fhoots area better that and not w per acre †. fifty pound According mit∦; thi parts in tw to mow fo harvest of This is the be fown in to catch a l

> ISLE OF mustard, in Artois

NORMA They neve corn, &c. i it as an imp lue of the

BRETAG that of the

Rennes. roods Engl cyder ever twenty pot duced nonis fo great, the prefs, The groun a deficcate

LORALM pears, &c.

AUVERG in the volc net blanche

^{*} A real fugar has been made from it. Spee. de la Nature. Vol. ii. p. 247. + Mitchel's Prefent State of Great Britain and N. America, p. 157.

[†] Memoire fur le M is. 410. 1785 p 10. § Objervations fur l'Agriculture, par M. Varenne de Fenille, p. 91. Il Infruellon fur la Culture & les Ufages des Mais. 8vo. 1780. p. 30.

Kalm's 1761. P. 9 € Modern

Every one knows that it is much cultivated in North America; about Albany, in New York, it is faid to yield a hundred bushels from two pecks of seed *; and that it shoots again after being killed by the frost, even twice; that it withstands the drought better than wheat (this is questionable); does much better on loose than on stiff soils, and not well at all on clay. In South Carolina it produces from ten to thirty-five bushels per acre†. On the Mississippi two negroes made sity barrels, each one hundred and sity pounds †. In Kongo on the coast of Africa, it is said to yield three crops a year §. According to another account, great care is taken to water it where the situation will admit ||; this I have seen in the Pyrennecs; but most of the maiz in France, even nineteen parts in twenty are never watered. About Douzenac, in the Limousin, they sow it thick to mow for soiling, and at Port St. Marie on the Garonne they do the same, after the harvest of other grain, which is the most prositable, and indeed admirable husbandry. This is the only purpose for which it can be cultivated in northern climates. It might be sown in England the sirst week in June, and mown the end of August, time enough to catch a late crop of turnips, or as a preparation for wheat.

Mustard.

ISLE OF FRANCE.—Petiviers.—At Denainville, near this place, I faw them mowing mustard, in full blossom, to feed cows with.

ARTOIS .- Lilliers .- Much all the way to Bethune; fow spring corn after it.

Orchards.

NORMANDIE.—Falaife.—Many apple and pear trees are feattered over the country. They never plant them on the belt lands, as they are convinced that the damage to the corn, &c. is at least equal to the value of the cyder; but on the poorer foils they consider it as an improvement, forming a fourth, or third, and in some cases even a half of the value of the land.

BRETAGNE.—Doll.—A cycler country; but reckon the trees at no real value beyond that of the land, for they spoil as much as they produce.

Rennes.—A common proportion is to plant thirty trees upon a journal (about five roods English,) which, if well preferved will yield on an average five to ten barriques of cycler every year; and the mean price 12 livres the barrique, which is one hundred and twenty pots; this year good orchards give forty or fifty per journal, but they have produced none, or next to none, for four years past. The damage the trees do to the corn is so great, that, in common expression, they say they get none. The cycler is made by the press, which is of the same kind as Jersey, I suppose, brought from this country. The ground apples, and wheat or rye straw in layers under the press, and reduced to such a deficeated state that they will burn freely immediately out of the press.

LOR ALNE. -- Blamon to Savern. -- The whole country spread with fruit trees, apples, pears, &c. from ten to forty rod afunder.

AUVERGNE.—Vaires.—The valley of this place, fituated in the Limagne, fo famous in the volcanic hiltory of France, is much noted for its fine apples, particularly the rennet blanche, the rennet gris, calville, and apy, all grafted on crab flocks.

Modern Univ. Hill. Vol. avi. p. 25. Mem. de l'Acad. des Sciences. 1759. p. 471.

^{*} Kalm's Travels in North America. Vol. ii. p. 245.

† Defeription of South Carolina, 8vo.

**Tot. P. 9. † Du Pratz Hiltory of Louisiana. Vol. i. p. 306.

Olives.

Roussillon.—Bellegard to Perpignan.—Reckoned to pay one livre each tree.

Pia.-The land under them fallowed every other year, and fown with corn: they are pruned in the fallow year, yielding no fruit; a crop being only in the corn LANGUEDOC.—Narbonne.—Olives pay, in general, 3 livres each tree per annum;

fome 5 livres. Many fields of them are planted in rows, at twelve yards by ten.

Beziers. - The trees on the farm that was Monf. L'Abbé Rozier's, are feventeen yards

Pinjean.—Some trees to large and fine are known to give eighty four pound of oil in a year, at 10% the pound, or 42 livres; but they reckon in common that good trees give 6 livres one with another; this epithet good, fliews that the common average of all trees is much lower. In planting, if they mean to crop the land with corn in the common manner, that is one year in two, the other fallow, they put one hundred trees on eight feterées of land; but if they intend to have no corn at all, the fame number on four feterés; under corn, the eight feterées yield forty septiers of corn, each one hundred pound at o livres (7s. 10 d.) The feteree is about half an acre, as I conclude, from the best intelligence I could procure. This proportion is one hundred trees on four English acres, or twenty-five per acre: if they were all good, the produce in oil would be 150 divres, and of wheat 90 livres—in all 240 livres or 10l. 10s.; the half only of which is annual produce, or 51. 5s. which feems not to be any thing very great, even supposing the trees to be all good, which must be far from the fact.

Montpellier to Nifines.—The trees are three rods afunder, by one and a half; also two by one and a half; both among vines; also two square; also one by one and a

Pont de Gard .- Planted at one rod and one and a half; their heads almost join. They are all pruned to flat round heads, the centre of the tree cut out, cup-fashion; and these formal figures add to the ugliness of the tree.

VINARAIS.—Aubenas.—In passing fouth from Auvergne, here the first olives are met

DAUPHINE'. - Piere Latte to Avignon. - Many; but feven-eighths dead from the frost.

and many grubbing up.

PROVENCE. - Aix. - Land planted with olives fells at 1000 livres the carterée, whilst arable anly 600 livres, but meadows watered 1200 livres. Clear profit of a carterée of olives, 40 livres, (21,600 feet, at 40 livres, it is 3l. 2s. 1d. per English acre.) Gathering the olives 40 livres 16/. the quintal: pressing 2 livres: cultivation 18 livres the carterée: the wood pays the pruning.

Tour d'Aigues.—The olive, pomegranate, and other hard trees as they are called here, bear fruit only at the end of the branches; whence, they conceive, refults the necessity of their being pruned every other year. Thirty years ago the common calculation of the produce, per olive, was 5/.; but now, the price being double, it may be fup-

posed 10%

Toulon. - They have great trees in this neighbourhood that are known to yield 20 livres to 30 livres a tree, when they give a crop, which is once in two years, and fometimes once in three. Small trees yield 3 livres, 5 livres, and 6 livres each, and are much more profitable than mulberries, for which tree the foil is too dry and floney. Olives demand

demand comes to vence, n appear h

Hveres known to of 1709. the panna 24/. the livres eac fquare car bad, 10/ 900 livre Antibes

kingdom. The cul very great vence, wh found their fome auth point is, th which spot

Var, as if

PROVEN met with i which is m Hyeres lies bes; but t that gives t been made are fo ofter which deftr numbers, o able fhoots,

The Kip livres in or; the other fi pents; this A fine tree the one thou trees here t vincing pro yield to the two or thre flowers, fold vol. Iv.

demand as great an expence in buildings, preffes, coppers, backs, &c. as vines. Preffing comes to 3 livres a barrel. Crop of a large tree, eight to ten pannaux. Olives, in Provence, never pruned into the hollow cup-form, which is fo general in Languedoc: they

appear here in their natural form.

Hures.—They produce considerably in twenty or thirty years, and some have been known to be a hundred years old. I saw, going to Notre Dame, some that resisted the frost of 1709. A good tree of thirty years gives, when it bears, three pannaux of olives; the pannaux holds thirty pounds to thirty-two pounds of wheat, and the common price is 24s. the pannaux. They have great trees that give a mot or twenty pannaux, or 24 livres each tree. When fields planted with olives are bought, they are measured by the square canne or toise; a canne of good land, well planted, 30s.; middling, 20s.; bad, 10s.; but there are some that sell to 60s.; consequently a middling arpent is 900 livres.

Antibes.—The largest trees I have seen in France are between this place and the Var, as if the near approach to Italy marked a vegetation unknown in the rest of the

kingdom.

The culture of this tree is found in fo fmall a part of France, that the object is not of very great consequence to the kingdom; one should, however, remark, that in Provence, where the best oil in Europe is made, there might be twenty trees to one that is found there; whence we may conclude, that if it were so profitable a husbandry, as some authors have represented, they would be multiplied more. The most important point is, their thriving upon rocky soils and declivities, impenetrable to the plough; in which spots too much encouragement cannot be given to their culture.

Oranges.

PROVENCE.—Hyeres.—This is, I believe, the only spot in France where oranges are met with in the open air: a proof that the climate is more temperate than Roussillon, which is more to the south; the Pyrennecs are between that province and the sun; but Hyeres lies open to the sea; so indeed does the coast of Languedoc; and so does Antibes; but there is a peculiarity of shelter at Hyeres, from the position of the mountains, that gives this place the advantage. I always, however, doubt whether experiments have been made with sufficient attention, when these nice discriminations are pretended, that are so often taken on trust without sufficient trial. The dreadful frost of last winter, which destroyed so many olives, attacked the oranges also, which were cut down in great numbers, or reduced to the mere trunk; most of them, however, have made consider-

able fhoots, and will therefore recover.

The Kipg's garden here, in the occupation of Monf. Fine, produced laft year 21,000 livres in oranges only, and the people that bought them made as much by the bargain; the other fruits yielded 700 livres or 800 livres; the extent of this garden is twelve arpents; this 1808 livres per arpent, befides the profit (941, 78, 7d, per English acre.) A fine tree will produce one thousand oranges, and the price is 20 livres to 25 livres the one thousand for the bell; 15 livres the middling; 10 livres the finall. There are trees here that have produced to the value of two louis each; and what is a more convincing proof of great profit, a small one, of no more than seven or eight years, will yield to the value of 3 livres in a common year. They are planted from the nursery at two or three years old, and at that age are fold at 30 f. each; and it is thought that the flowers, sold for distilling, pay all the expences of gultivation; they must, however, be planted

planted on land capable of irrigation, for if water be not at command, the produce is fmall.

Pomegranates.

PROVENCE.—Hyeres.—The hedges are full of them, and they are planted fingly, and of finall growth; the largest fruit fell at 3 f. or 4 f. each; middling, 1 f.; little ones, A good tree, of ten or fifteen years, will give to the value of 2 livres or 3 livres a year.

Pines.

GASCOIGN.—Bayonne—'The great product of the immense range of waste, as it is commonly called landes, is refin: the pinus maritimus is regularly tapped, and yields a produce, with as much regularity as any other crop, in much better foils. I counted from fifty to eighty trees per acre, in fome parts; but in others from ten to forty; those with incitions for the refin are from nine to fixteen inches diameter. Some good common oak on this fand, twelve to fourteen inches diameter, but with bodies not longer than from eight to ten or twelve feet.

St. Vincent's.—Here pines are cut for rofin, at the age of fifteen to twenty years; the first year at about two feet from the ground, the second to four feet, the third to fix feet, and the fourth to eight or nine feet; and then they begin again at bottom, on another fide of the tree, and continue thus for one hundred years; the annual value per annum in refin, 4 f. or 5 f. When they yield no longer, they cut into good plank, not being spoiled by tapping. Much tar also is made, chiefly of the roots. Cork trees are barked once in feven years, and yield then about 15 f. or about 2 f. per annum. Men are appointed, each to a certain number of trees, to collect the refin, with spoons, out of the notches, cut at the butt-end of the tree to receive it.

Dax.—Pines pay 4 f. a year in refin. Pine woods, with a good fucceffion of young ones; from one rod and a half to three afunder.

Tartafi. - Several persons united in afferting that the pines give one with another 4 s. to 5% each, from fifteen to one hundred years old, and are then fold on an average at 3 livres each; that taking the refin was fo far from spoiling the tree, that it was the better and cut into better planks. This furprifing me, I fought a carpenter and he confirmed it *. They added that an arpent of pines was worth more than an arpent of any other land in the country; more even than of vines; that it would fell according to the trees from 500 livres to 1000 livres, while the inclosed and cultivated tands would not yield more than 300 livres, or at most than 400 livres. The arpent I found by meafuring a piece of two arpents, to be 3366 English yards (500 livres is 311, 10s, per English acre).

St. Severe. -- Pass several inclosures of fandy land, resembling the adjoining wastes, fown with pines as a crop; they are now of various heights, and very thick. See fome very good chefnut underwood on a white fand.

GUIENNE.—Langon.—Many of the props used for their vines here, are young pines, the thinnings of the new fown ones; are fold for 36 livres to 40 livres the thouland, or . twenty bundles, each fifty pines.

Cubsac article of fmall bran and at two half, the I pound of BRETA

have fown To Vann land.

Auver of fences, Fix.—D PROVEN

and fuch a produce of Cavalere

most negle To Estre rennees.

Pines ar and certain nants. Bu should be a gross produ

ARTOIS. good whea Aras. -] equal to co

LORAINI ALSACE. Strafbour fquare feet

Our idea lieve, but u It is a comm an observati riments upo the foundati a preparatio pies. It ca almost any oil would n converts th flance, and, they exhau

M Secondat makes the fame observation, Mem. fur P. Hift. Nat. du Chene. Folio. 1785. p. 35. Same affertion is made in Niémoire fur l'Utilité du Defrickement des Terres de Caffelnaude-Medoc. 410. 1791. Rejonfe au Rapfort, p. 27. Cubfac

Cubfac to Cavignac.—On the poorest lands sow pines, which are not an unprofitable article of culture. At five years old they begin to thin them for vine props; and the small branches are sold in faggots. At sisten years the produce is more considerable; and at twenty-sive the best trees make boards for heading casks. I saw a journal and half, the boards of which yielded 1200 livres. They sow one hundred and thirty-sive pound of wheat-seed on a journal. Several crops of sown pines very thick.

BRETAGNE. - Quintperley to L'Orient. - Pines abound in this country, and fecm to

have fown themselves all around; but none are cut for refin.

To Vannes.—Such a feattering of them, that I apprehend all this country was once pine land.

AUVERGNE.—St. George.—In the mountains, fee immense pine planks laid by way of fences, not less than fixty feet long, and two and two and a half broad.

Fix.—Dr. Coiffier has them in the mountains eighty feet high, and ten feet round.

PROVENCE.—Cuges to Toulon.—In the rocky mountains of this coast, there are pines, and such as are of any fize are cut for resin; but they stand too thin to yield an acreable produce of any account.

Cavalero to Frejus.—The mountains here are covered chiefly with pines, and have a most neglected defert appearance.

To Estrelles.—The same; and hacked and destroyed almost as badly as in the Pyrennees.

Pines are justly esteemed a prositable crop for the landlord, for they yield a regular and certain revenue, at a very little charge; no repairs, and no loss by failure of tenants. But, in regard to the nation, pines, like most of the poor woods of France, should be reckoned detrimental to the public interest, since a kingdom flourishes by gross produce and not by rent.

Poppics.

ARTOIS.—Lillers.—Much cultivated for oil; they are called here zuliette. Get as good wheat after them as after colefeed.

Aras. - Many here; they are reckoned to yield more money per arpent than wheat; equal to colefeed; which, however, is a very uncertain crop.

LORAINE.—Nancy to Luneville.—Some fine pieces on a poor gravel.

ALSACE.—Savern to Wiltenheim.—Many poppies; fome fine crops, and very clean.

Strafbourg.—Product three facks, at 24 livres per arpent, of twenty-four thousand fquare feet (41, 198, 9d, per English acre). Manure for them, and sow wheat after.

Our ideas of the exhausting quality of certain plants, are at present founded, I believe, but upon that half-information which is scarcely a degree above real ignorance. It is a common observation, that all plants whose feeds yield oil, are exhausters of soil; an observation that has arisen from the theory of oil being the food of plants. Experiments upon both have been so seem and unsatisfactory, as to be utterly insufficient for the foundation of any theory. Colesced, seeded in England, is almost generally made a preparation for wheat; so it is in France, and we here find the same effect with poppies. It can hardly be believed, that wheat, which demands land in heart as much as almost any other crop, should be made to follow such exhausting plants as the theory of oil would make one believe these to be; it is the organization of the plant alone that converts the nourishment into oil; which, in one plant, turns it to a faccharine substance, and, in another, to an acid one; but the idea that plants are fed by oil, and that they exhaust in proportion to their oil, is absolutely condemned by the olive, which yields

yields more oil than any other plant, and yet thrives best on dry arid rocky soils, of absolute poverty, as far as oil is concerned. We shall be wholly in the dark in this part of agriculture, treated as a science, till experiments have been greatly multiplied.

Potatoes.

Anjou.—Angers to La Fleche.—More than is common in France.

LORAINE.—Pont a Monfin —Throughout all this part of Loraine there are more potatoes than I have feen any where in France; twelve acres were at once under the

eve.

To Nancy.—Many cultivated through all this country, but degenerated, by being fown too often on the fame land; and for want of new forts. A journal yields twenty toulins, or about twenty-four bushels English; and 2! journals are equal to an arpent de France, which makes the acreable produce miserable. Price now 3 livres the tou-

lin; was only 25/.

Luncville.—More still; they plant them, after one ploughing, in April: for seed, cut the large ones only; but sell the smaller ones uncut. Always dung much. Every man that has a cow keeps the dung carefully for this crop; and such as have no land plant on other people's, without paying rent, that being the preparation for wheat: the crop of that grain is, however, very moderate, for the potatoe pumps much, to use the French expression,—i. c. exhaults greatly. Poor light soils answer best for them, as they are found not to do on strong land. Product per journal, thirty to sitty rasaux, which measure contains one hundred and eighty pounds of wheat. I found an exact journal, by stepping, to be one thousand nine hundred and seventy-four English yards, or about fixty-sive rods. At forty rasaux, each three English bushels, it is nearly about three hundred bushels English per acre. The price is now 7 livres the razal, heaped; when low, 3 livres; and in common, 4 livres 10s. The culture increases much.

ALSACE. - Savern to Wiltenbeim. Many, and good potatoes.

Strafbourg.—Produce of an arpent, of twenty-four thousand feet, seventy-five facks to one hundred, at 365 to 605 (at 21 livres, and ninety facks, it is 151 tos. 7d. per English acre.) Sow wheat after them, if manured, otherwise barley. In the mountains they pare and burn for them.

Schelostadt.—Produce fifty or fixty facks, at 3 livres, but 4 livres or 5 livres fometimes (fifty-five facks, at 3 livres, are 131. 5s. 10d. per English acre.) In planting, they think the difference is nothing, whether they be fet cut or whole. The people eat

them much.

Befort. - The culture continues to this place.

FRANCHE COMPTE'. - Be ançon. - And a feattering hither.

Orechamps .- Now lose the culture entirely.

AUVERGNE. - l'illencuve. - In these mountains they are cultivated in small quantities.

VILLAY. - Le Puy to Pradelles. - Ditto.

To Thuytz. - They are met with every where here.

DAUPHINE'.—St. Fond.—Many are cultivated throughout the whole country; all planted whole; if fliced, in the common manner, they do not bear the drought fo well.

They are plagued with the cur!.

These minutes shew, that it is in very few of the French provinces where this useful root is commonly found; in all the other parts of the kingdom, on inquiring for them, I was told, that the people would not touch them: experiments have been made, in

many pla forts coulc country ir reftriction would be confumpti æconomy, many othe with cattle would mal come not veloped in nothing ca

Isle of Cretté de directed by remains; thinks is the thinks which is ft where labor would equiple found, or feeding

ALSACE arpents bel the leaves belt food if fown and p

DAUPHI and half a l under rice, to health.

Angoun neither stro and two ind fassron amo and on god per lb. but removed. labour for i many places, by gentlemen with a view to introduce them for the poor, but no efforts could do it. The importance, however, would be infinite, for their use in a country in which famine makes its appearance almost periodically, arising from absurd restrictions on the corn trade. If potatoes were regularly cultivated to attle, they would be ready for the poor, in case of very high prices of wheat; and such forced consumption would accustom them gradually to this root; a practice in their domestic exconomy, which would prevent much misery for want of bread. This object, like so many others, can only be effected by the exhibition of a large farm, highly stocked with cattle, by means of potatoes; and the benefit, in various ways, to the nation would make such an exhibition exceedingly advantageous. But such establishments come not within the purview of princes or governments in this age: they must be enveloped in the mist of science, and well garnished with the academicians of capitals, or nothing can be effected.

Racine de Difette.

ISLE OF FRANCE.—Dugny.—This plant, the beta cycla altissima of Linnæus, Mons. Cretté de Paleuel has cultivated with attention: he has tried it by transplantation, as directed by Mons. PAbbé de Commerell; also by sowing the seed broadcast where it remains; and likewise seed by seed, in squares of sisteen inches; and this last way he thinks is the best and most prositable. The common red beet, which he has in culture, he thinks yields a larger produce; but it does not yield so many leaves as the other, which is stripped thrice in the summer by the hand, an operation which may answer where labour is excessively cheap; but I have my doubts whether the value in England would equal the expence of gathering and carriage. Cows and hogs, Mons. Crette has sound, will eat the roots readily, but he has made no trial on it in fattening oxen or feeding sheep.

ALSACE.—Schelestadt.—The culture is common in this country: I viewed three arpents belonging to the master of the post, which were good and clean. They gather the leaves by hand for cows, and then return and gather again, and the roots are the best food for them in winter; they come to eight pounds and ten pounds, and are

fown and planted like tobacco.

Rice.

DAUPHINE'.—Loriol.—Sixty years ago the plain of Livron, one mile from Loriol, and half a league from St. Fond, more than a league long and a league broad, was all under rice, and fucceeded well, but prohibited by the parliament, because prejudicial to health.

Saffron.

Angoumois.—Angoulenc.—The best land for this crop is reckoned that which is neither strong nor stoney, but rich and well worked; plant the rows six inches asunder, and two inches from plant to plant; sow wheat over the planted land, and gather the saffron among the wheat; blossom at All-Saints, when they gather it. In a good year, and on good land, a journal yields three pounds, which sells, when dear, at 30 livres per lb. but it is sometimes at 16 livres: lasts two years in the ground, after which it is removed. They affert, that the culture would not answer at all if a farmer had to hire labour for it; all that is planted is by proprietors.

15

Tobacco.

FLANDERS.—Most farmers, between Lille and Montcassel, cultivate enough for their own use, which is now (November) drying under the caves of their houses.

ARTOIS.—St. Omers.—Some pieces of tobacco, in double rows, at eighteen inches and two feet intervals, well hoed.

Airc. - A crop is worth three times that of wheat on the fame land, and at the fame time prepares better for that grain than any thing.

ALSACE. - Strafbourg. - Much planted in all this rich vale, and kept very clean. Product eight to ten quintals per arpent of twenty-four thousand feet, at 15 livres to 30 livres per quintal (nine, at 23 livres, is 14l. 6s. 2d. per English acre). Sow wheat

after it; and the best wheat is after tobacco and poppies.

Benfeldt.—Great quantities here, and all as clean as a garden.

· Schelestadt.-Produce fix quintals to eight per arpent, at 16 livres the quintal (81, 15s. 7d. per English acre). This they reckon the best crop they have for producing ready money, without waiting or trouble. There are peafants that have to fix hundred quintals. They always manure for it. They fow it in March on a hot bed covered with mats; begin to plant in May, and continue it all June and the beginning of July, at eighteen inches or two feet fquare, watering the plants in a dry feafon. When two feet high, they cut off the tops to make the leaves spread. Their best

wheat crops follow it.

Tobacco, as an object of cultivation, appears in these notes to very great advantage; and a respectable author, in France, declares, from information, that, instead of exhaufting the land, it improves it like artificial graffes *; which feems to agree with my intelligence; yet the culture has been highly condemned by others. Mr. Jefferson observes thus upon it: "it requires an extraordinary degree of heat, and still more indispensably an uncommon fertility of foil: it is a culture productive of infinite wretchedness: those employed in it are in a continued state of exection, beyond the powers of nature to support: little food of any kind is raifed by them; so that the men and animals, on these farms, are badly sed, and the earth is rapidly impoverished. The cultivation of wheat is the reverse in every circumstance; besides cloathing the earth with herbage and preferving its fertility, it feeds the labourers plentifully; requires from them only a moderate toil, except in the feafon of harvest; raises great numbers of animals for food and fervice, and diffuses plenty and happiness among the whole. We find it easier to make an hundred bushels of wheat than a thousand weight of tobacco, and they are worth more when made †." This authority is respectable; but there are circumstances in the passage which almost remove the dependence we are inclined to have on the author's judgment. The culture of wheat preferving the fertility of the earth, and taifing great numbers of animals! What can be meant by this? As to the exhaulting quality of wheat, which is fufficient to reduce a foil almost to a caput mortuum, it is too well known, and too completely decided to allow any question at this time of day; and how wheat is made to raise animals we mult go to America to learn, for just the contrary is found here; the farms that raise most wheat have fewest animals; and in France, husbandry is at almost its lowest pitch for want of animals, and because wheat and rye are cultivated, as it were, to the exclu-

+ Notes on the State of Virginia, p. 278.

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roots, which BRETAG wheat; for inconfidera

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[.] De l'Administration Provinciale par M. le Trene. 'Tom. i. p. 267.

fion of other crops. Tobacco cannot demand an uncommon degree of heat, because it has been cultivated on a thousand acres of land, successfully in Scotland: and as to the demanding of too great exertions, the free hands of Europe voluntarily addict themselves to the culture; which has nothing in it so laborious as reaping wheat. I take the American case to be this; ill husbandry, not tobacco, exhausted the land; they are now adopting wheat; and, if we may judge from the notions of the preceding quotation, that culture will, in a few years, give the sinishing stroke to their lands; for those who think that wheat does not exhaust, will be free in often sowing it, and they will not be long in finding out what the result will prove.

Monf. Bolz, in Swifferland, fays, that they are difgusted with the culture of tobacco, because it exhausts their lands; half an arpent gave five to fix quintals of * leaves. Estimated grossly, this may be called a thousand weight per acre, which Mr. Jesserson compares with one hundred bushels of wheat; a quantity that would demand in England, four acres of land to yield; and, as American crops do not yield in that proportion, it is one acre of tobacco being as expensive as five or fix of wheat, which surpasses

comprehension.

The Strasbourg produce of nine quintals, in the notes above, equal 15 cwt. per Engish acre. The Schelestat produce of seven quintals is about 12 cwt. per acre.

Dr. Mitchel, many years before Mr. Jefferson, gave the same account of the exhaust-

ing quality of tobacco f.

The cultivation is at prefent foreading rapidly into countries that promife to be able to fulply the world. In 1765, it was begun to be cultivated in Mexico, and produced, in 1778, to the value of 800,000l. and in 1784, 1,200,000l.

Turnips.

GUIENNE.—Anfpan to Bayonne—Raves are, in these waste tracts at the roots of the Pyreunecs, much cultivated; they manure for them by burning straw, as described under the article manure; weed, and, as they told me, hoe them; and have some as large as a man's head. They are applied entirely to sattening oxen. Maize is sown after them. The people here knew of the orders given by the King, for cultivating this plant, but I could not find they had had any effect. The practice obtained here before the two last severe years, which were the occasion of their increasing it, much more than any orders could do.

FLANDERS. - Valenciennes to Orchies.—Many fields of this root, but quite thick, though it was faid they have been hood; these are all after-crops, sown after corn.

NORMANDIE.—Cacu.—In going to Bayeaux, many, both flourishing and clean, though too tinck; but on inquiry, found them all for the market, and none for cattle or sheep. I thought the colour of the leaf differed from our own, and got off my horse more than once to examine them. They are the raves of the south of France; the roots, which ought to have been of a good fize, were carrot-shaped and small.

BRETAGNE.—Belle-Isle to Morlaix. - Here is an odd culture of raves amongst buckwheat; fown at the same time, and given to cows and oxen, but the quantity is very

incontiderable.

Morlaix - Get their best turnips after flax, sometimes to a very good fize; but, for want of sufficient thinning the crops, in general, very small roots must be produced;

1 Bourgoanne's Travels in Spain, vol. i. p. 368.

^{*} Mem. de la Societé Occonomique de Berne. 1763. 'Tom. i. p. 87.

⁺ Present State of Britain and North America, 8vo. 1767. p. 149, 151.

yet the leaves large, healthy, and vigorous. They fow them also among buckwheat; but the product is triffing, and the use but momentary, as they plough the land for wheat.

Anjou.—Migniame.—If one were to attend only to conversation, without going into the fields, a stranger would be persuaded that the culture of turnips flourished here: they actually give some, and cabbages too, to their cows, for every man has a scrap: but sown quite thick, and the largest I saw not bigger than a goose egg; in general, not a sourth of that size; and the largest piece I saw was half an English acre. They have, in like manner, patches of a fort of kale, which is the chou de Poitou; this is instead of the chou de Anjou, of which the Marquis de Turbilly speaks so much: and which is quite neglected in this country now, in favour of this Poitou cabbage, that is sound to produce many more leaves. To me it however appears inserior to the chou de Vache of Flanders

To La Fleche.—A scattering of miserable raves all the way.

Alsace. - Schelestat to Colmar. - Some scattered pieces, but in very bad order; and

none hoed, which they ought to have been three weeks before I faw them.

AUVERGNE.—Iffoire.—Raves are cultivated for cattle, but on fo small a scale, that they scarcely deserve mention. They sow them also among buckwheat, which is drawn by hand, when in blossom, for forage, and the raves left. No hoeing, but some are weeded.

Brioude.—Many raves, and cultivated for cattle: common to two pounds weight. St. George's to Villeneuve.—Many raves, but miferably poor things, and all weeds.

Perhaps the culture of turnips, as practifed in England, is, of all others, the greatest desideratum in the tillage of France. To introduce it, is essential to their husbandry; which will never flourish to any respectable extent, and upon a footing of improvement, till this material object be effected. The steps hitherto taken by government, the chief of which is distributing the feed, I have reason to believe failed entirely. I sent to France, at the request of the Count de Vergennes, above an hundred pounds worth of the feed; enough for a finall province. When I was at Paris, and in the right feafon, I begged to be shewn some effects of that import, but it was all in vain. I was carried to various fields, fown thick, and abfolutely neglected; too contemptible to demand a moment's attention. Not one acre of good turnips was produced by all that feed. It is with turnips, as in many other articles; a great and well cultivated English farm, of seven hundred or eight hundred acres, should be established on an indifferent soil; and two hundred acres of turnips cultivated upon it, and eaten on the land by sheep, should every year be exhibited: and a fuccession of persons educated on such a sarm, dispersed over the kingdom, would do more to introduce the culture than all the measures yet attempted by government.

Walnuts.

BURRY.—Verfon to Vatan.—Many of these trees spread over the country which yield a regular revenue by oil.

QUERCY. — Souillac. — Walnut-oil cake the finest food of all for fattening oxen. They export pretty largely of this oil, the trees being every where.

Ancoumois. - Rignac. - Walnuts spread over almost every field.

Ruffee.—A common tree yields a boilfeau of nuts; fold at 3 livres or 4 livres; but a good tree three boilfeau. All for oil, which the people eat in foups, &c.

Poirou. — Many through all parts of the province, which I passed in crossing it. Oil universally made from them. This year (1787) all were so frozen, that the crop will

be very fi feau fells gives five of oil, wh Anjou Bretagne.

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^{*} Forest's † St. John VOL.

be very small; sometimes get sixteen boisseau a tree, even to twenty boisseau; the boisfeau fells generally at 20s. There is, on an average, one tree to an acre. One tree gives five or fix measures of nuts, and each measure makes something more than a pint of oil, which fells at 18/. or 20/.

ANJOU. - Across this whole province they are found every where, but none through Bretagne.

ALSACE.—Ifenheim.—Great numbers spread all over the country; for oil.

BOURBONNOIS. - Moulins. - Some estates have a good many scattered trees; the oil

fells at 12/: the pound.

AUVERONE.—Clermont.—Many in every part of the country; a prime tree will, in a good year, give twenty pounds and even thirty pounds of oil, one of ten years fix. pounds; common price 6/. per pound.

Lempde.—Here they finish; as we advance from this village, no more are met with.

Various Plante.

QUERCY.—Brives.—Figs we met with here for the first time; they are scattered over the vineyards, and wrapped up in mats, to preserve them from the frosts.

Creiffensac.—Gieyse much cultivated here; it is the lathyrus setifolius. Also jarash, the vicia latharoides. They fow them both in September and the fpring, which are generally used, mown green, for foiling.

Souillac.—They have no meadows in many districts of this country, but supply the want by the above-mentioned plants, which are always used green. They do not answer equally in hay, as it is faid that the leaf falls off in drying.

Cabors.—Near this place meet with four new articles of cultivation; one a vicia fativa varietas; another the ciccr arietinum; the third the crown lens; and the fourth the lupinus albus.

Caussade.—Here the trifolium rubens is cultivated, and continues through all the Pyrennees. On all these articles I must however observe, that they do not seem to equal. for foiling, the common winter-vetch, which we cultivate fo much in England; nor lucern, fo fuccessfully fown in France.

GUIENNE.—Triticum Repens. Upon the banks of the Garonne I met women loaded with the roots of this plant, going to fell it at market; and they informed me it was bought to feed horses with. It is applied to the same use at Naples. It grows with great luxuriance at Caygan Solo, in latitude 7 *; and being the great plague of English husbandry, may be called a universal grower. It seems, from a late account †, as if they cultivated it in the island of Nantucket, in America.

ISLE OF FRANCE.—Dugny.—Monf. Dretté de Palcuel gave me some notes of ex-

periments he had made on various plants, in drying them for hay:

The epilobium angustifolium makes hay that is readily eaten by sheep, and loses half in drying. They are very fond of the hay of the spirca ulmaria, the lithum salicaria, thalictrum vulgaris, pucedanum filaus, and centaurea jacea; all these lose half, when made into hay; the althea officinalis two-thirds. Monf. Crette is of opinion, from his trials, that these plants may be very useful in cultivation, for hay. He found, at the same time, that an arpent of wet meadow gave thirteen thousand two hundred pounds of green herbage, which lost two-thirds in drying. An arpent of winter-vetches feventeen thoufand eight hundred pounds green.

* Forest's Voyage to New Guinea, p. 16.

[†] St. John's Letters of an American Farmer, 840. 1782, p. 207. VOL. IV.

The common fun-flower he has also cultivated; he plants it in rows, at two feet asunder, and one foot from plant to plant; an arpent containing fixteen thousand two hundred plants; the leaves he gives to cows, the flowers may be used for dying; of the stems he makes vine props, or for French beans, and afterwards burns them; and of the feed he makes oil, which leaves a cake good for fattening cattle. Six perch of land, each of eighteen feet square, has given him twenty-two boisseau of feed, the boiss au its of the septier, that contains two hundred and forty pounds of wheat; but the crop exhausts the land exceedingly, and finall birds devour the feed greedily.

The fame gentleman compared cabbages and potatoes, in alternate rows: an arpent gave (half the ground) fixty-two feptiers of potatoes, which weighed fourteen thousand eight hundred and eighty pounds; the cabbages on the fame land, in number five thou-

fand four hundred, weighed twenty-five thousand five hundred pounds.

Dammartin.—Summer-vetches cultivated here, they are mown for hay, and yield eight hundred to one thousand bottes per arpent; one thousand one hundred have been known.

ARTOIS.—La Recouffe.—Winter-vetches are found on every farm, on the good land from Calais to St. Omer: oats are mixed, to keep them up; and every one foils his horfes in the stable.

As. -Some hops here.

Anjou. - In the way from Angers to La Fleche, the number of citroules is very great, even to acres, and the crop extremely abundant; the metayers feed their hogs with them.

AUVERGNE. - Brioude. - Jarousse every where sown, the end of August or beginning

o! September, for hay.

DAUPHINE.—Lorid.—The melilotus fibyrica, from Monf. Thouin, at the King's garden at Paris, makes, in the garden of Monf. Faujus de St. Fond, a most superb sigure; nobody can view its prodigious luxuriance without commending the thought of cultivating it for cattle. The coronilla varia, a common plant here, and of such luxuriance, that it is hardly to be destroyed. The bedysarum coronarium does well here.

PROVENCE.—Cages.—Capers are here met with for the first time, in going from Marseilles to Italy. It is a low bush, planted in squares of about five or fix seet. This year they yield nothing, because damaged by the frost; but, in common, more prosit-

able than vines; they mentioned one pound per tree, at 30f.

Toulon.—Capers are not fo profitable as vines. The bulbes here are planted at 64 or feven feet fquare; and a good one will give 14 or two pounds of capers; but the price varies prodiciously, from 30 livres or 40 livres, to 120 livres the quintal; average 30 livres, or from 65 to 205, the pound.

Hieres *. - Capers are here planted in fquares, at fix, feven, and eight feet; each good bufflel yields two pounds from 6f. to 24f the pound; but in a gross estimate of a whole

crop, are not supposed to pay more than 6/, to 10/, per bushel.

Graffe.—Here is one of the most fingular cultures to be met with, that of plants for making perfumes; whole acres of roses, tuberoses, &c. for their slawers, and a street full of thops for felling them: they make the famous otter of roses, as good and as clear as from Bengal; and it is faid now to supply all Europe.

LVONNOIS.—The fromental of the French (ovena elatior) is cultivated in this part of France, and in fome diffricts of Franche Compte. The feed is commonly fold by the

feedfiner who mer it, in wh calling it fuppofing Loraine meadows however, of plants

Citrou rarely fai hogs eat tening: in the qu roule wit thirty-five them to fo but not in

Solote most culti that there spot of cu (eaten do of one the and treat tract woul firmation yield as go region bet is wanted

Berry and furz, are broker this anothe to build of ple affert, Limous

commons, village. Bigore

be underfl the comm

feedfmen,

^{*} The natural hillorian of Provence mentions a fingular profit by this plant, at Hieres, of two hundred caunes square giving 200 livres net, while the same breadth, in common husbandry, only 18 livre. Mem. pour service a P High. Nat. de la Provence, par M. Bernard. 8vo. tom. i. p. 329.

[•] Bomarre † Mem. di ‡ Corps d' † Olfero, e

feedsmen, at Lyons, of whom I bought some to cultivate in England. The first person who mentioned it publickly was, I believe, Monf. Miroudot, who wrote an effay upon it, in which he fell into an error, copied by many of his countrymen *, namely, that of calling it the ray-grass of the English. The great botanist, Haller, was mistaken in fuppoling it the avena flavescens t. King Stanislaus made some experiments on it in In Bretagne t it has been found to yield ten times the produce of common meadows. That it is very productive cannot be doubted, but it is a very coarfe grafs: however, it merits experiments, and ought to be tried upon a large fcale, as the qualities of plants cannot be afcertained upon a fmall one.

Citroules, in this province and the neighbouring ones, are cultivated largely, and rarely fail. They may be preserved until the beginning of January: oxen, cows, and hogs eat them freely; for lean cattle they are given raw, but commonly boiled for fattening: from ten pounds to twenty pounds a day, given to cows, foon thews the effect in the quality of milk For fattening an ox, in Breffe S, with them, they mix the citroule with bran or pollard, or flower of buckwheat, and boil them together, and give thirty-five pounds to forty pounds to each beaft per diem. In some places they apply them to feeding carp. The poor people eat them in foup, in most parts of the kingdom, but not in great quantities.

CHAP. XXVI.—Of the Waste Lands of France

Sologne .—THERE is, in this province, fuch a large mixture of waste, even in the most cultivated parts, and cultivation itself is carried on upon such barbarous principles, that there will not be much impropriety in confidering the whole as waste; to every fpot of culture called a farm, a much greater proportion of rough sheep-walk and wood (eaten down and deftroyed) is annexed; fo that any good farmer, who got poffession of one thousand or one thousand five hundred acres, would conclude the whole as waste, and treat it accordingly: by much the most unproductive and poorest part of such a tract would, in every case, be the lands at present under the plough. I may, in confirmation of this general idea, add, that there are many absolute wastes in France, that yield as good, and even a better produce than all Sologue, acre for acre. I know no region better adapted for a man's making a fortune by agriculture, than this; nothing is wanted but capital, for most of the province is already inclosed.

Berry. - Chateauroux. - Leaving this place for the fouth, enter vaft heaths of ling and furz, but much mixed with trefoils and graffes. Some finall parts of thefe heaths are broken up, and fo ill ploughed, that the broom and furz are in full growth. After this another heath, of feveral miles extent, where the landlords will not give leave either to build or break up, referving the whole for fleep, and yet not flocked; for the people affert, that they could keep twice the number, if they had them.

Limousin.—To Limoges.—The mountainous heaths and uncultivated lands are commons, and therefore every metayer fends his theep in the common tlock of the

BIGORE - Ragneres de Luckon - The waste tracts of the Pyrennees, by which are to be underflood, lands subject to common pulturage, are so much subject to the will of the communities, that these sell them at pleasure. Formerly the inhabitants appropri-

Bomarre Dia. d' 154. Nat. tom ii. p. 565; v. p. 225.

[†] Mem. de la Soc. de Berne. 1770. p. 16. ‡ Corpe d'Observ. de la Sov. de Beetagne. 1759, 1760. p. 44, 45.

⁵ Olfern, et Exp par Finite, p. 85.

ated to their own use, by inclosure and cultivation, what portions they pleased; but this obtains no longer; at present the communities sell these wastes, and fixing a price on them, nearly to their value, new improvements are not so common as heretosore.

LANGUEDOC.—Narbonne to Nifines.—This vale, which is by far the richest of Languedoc in productions, is of no considerable breadth, yet the quantity of waste neglected land in it is very great.

Monrejau to Lann Maison .- Vast wastes, covered with fern; the soil good; and land

projecting into it cultivated to advantage.

Bagneres de Bigorre.—These immense fern-wastes continue for many miles, with many new improvements in them. They belong to the communities of the villages, which fell portions of them to any persons willing to buy. The price most common has been 20 livres the journal, of one hundred and twenty-eight cannes square, the canne eight pans, the pan eight inches and four lines, four journals making an arpent. The method of improving has been, first to burn all the fern and rubbish, then to mattock it and sow rye, which is pretty good; then oats for fix, feven, or eight years, according to circumstances; after that they summer-fallow and take wheat Some they leave to grass and weeds, after those eight crops of oats; a detail of the husbandry of barbarians! They have all a right of commonage on the wastes, as long as these continue uninclosed; confequently can keep cattle, and especially sheep, to any amount in summer; yet, in their inclosed improvements, they give not a thought to raise winter food! Such stupidity is detestable. The parish of Cavare has 104,000 arpents of these wastes, without one metayer; all are peafant proprietors, who buy morfels as it fuits them. The improvements are exempted from tithes for ten years, but not at all from King's taxes, which

BEARN. - Pau to Moneins. - Vast wastes of rich foil, covered with an immense product

of fern, to the amount of five or fix waggon loads an acre.

St. Palais to Anspan.—Vast wastes, belonging to the communities of the parishes, that sell them to whoever will buy: a common price 120 livres per arpent; but after they are brought into culture, they sell for at least 300 livres. The advantages of this system, which extends through the whole region of the Pyrennees, is prodigious: it excludes the rights of commonage, because all is enclosed as sast as bought; and enables every industrious man, that has saved a little money, to become a land proprietor, which is the greatest encouragement to an active industry the world can produce; it

has, however, one evil, that of too great a population.

Bayonne to St. Vincents.—In this line I came first to the landes of Bourdeaux, because they extend from the gates of Bayonne to those of Bourdeaux, and of which I had read so much, that I was curious to view and examine them; they are said to contain 1,100,000 arpents. They are covered with pines, cork-trees (only half the value of pines), broom, whins, ling, and furz; the soil sand, but the growth of trees shews a most bottom. There is a good deal of cultivation mixed with the waste this first stage. There is much land also under water, a fort of sandy sen. Pass a great space, without trees, covered with dwarf surz, ling, and fern. Others before Dax; one of them of sive or six miles long, by two or three broad: much rough grass and ling on it: but none of these tracts appear half stocked.

Dax to Tartus.—This district is a deep white sand, the whole of which has evidently been lande, but part of it inclosed and improved; much is, however, yet rough.—Singular scene of a blowing sand, white as snow, yet oaks growing in it two feet diameter; but a broken ground discovers a bed of white adhesive earth, like marl, which explains

the wonder.

• De la Necessité d'occuper tous les gros Ouvriers, p. 8.

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pints; for

Learn at Tartas, that these immense wastes, the landes, without pines or wood, are to be purchased, at all times very cheap indeed, of the King, the great lords, and of the communities of many parishes, even so low as 3 livres per arpent, with an exemption from tithes, and from taxes for twenty years. But every one here reckons them so bad, that all the money spent would be sure to be lost; yet it is admitted that there is a bed of marl or clay under all the country. This opinion is chiefly sounded on the attempts of Mons. Rollier, of Bourdeaux, having made a trial of cultivating them, and succeeded very ill. I guessed how such improvements had been attempted, and told my informants what I supposed had been done; and my guess proved exactly right: corn—corn—corn; and then the land pronounced good for nothing. It does not signify telling such people, that the great objects in all improvements of wastes, are cattle, and sheep, and grass, after which corn will be sure. Nothing of this kind is comprehended from one end of France to the other.

As I shall here take my leave of these landes, I may observe, that so far as they are covered with pines, they are not to be esteemed wastes; but, on the contrary, occupied with a very profitable culture, that does not yield less than from 15s. to 25s. an acre annual revenue. Of the very extensive tracts not so employed, and which are to be purchased at so cheap a rate, they are among the most improveable districts in the kingdom, and might be made, at a very small expence, capable of supporting immense slocks of sheep.

Cavignac to Pierre Brune .- Many fandy wastes, with white marle under the whole.

To Cherfac. - Great wastes, of many miles extent, covered with fern, ling, and shrubby oak; all greatly improveable.

To Montlieu — Ditto. Many of these wastes belonged to the Prince of Soubise, who would not sell but only let them; the consequence has been, that no improvements have been wrought.

La Graule.—The wastes in this country are fold at 10 livres the journal, and less; fome better at 30 livres. The journal here is to the English acre as ten to thirty-eight; it consists of ten carraux, each eighteen feet square.

NORMANDIE.—Valogue to Cherbourg.—Monf. Doumere, of Paris, having bought of Monsieur, the King's brother, three thousand arpents, part of fourteen thousand fold at the fame time, being parcel of an ancient but much neglected forest, has made an improvement here, which to far deserves attention, as it shows the principles on which the French improvers proceed. He has brought into culture feven hundred verges, which form his prefent farm, around a house for himself, and another for his bailiff, all built, as well as many other edifices, in much too expensive a manner; for these erections alone cost 2500 louis d'or. Such unnecessary expenditures in building is generally sure to cripple the progress in much more necessary matters. The first business in the improvement, was to grub up the wood; then to pare and burn; and manure with lime, burnt with the furz, fern, and heath of the land; the flone was brought from Valogne: as foon as it was cleared, it was fallowed the first year for wheat. Such infatuation is hardly credible! A man, in commencing his operations in the midst of three thousand acres of rough ground, and an immenfe palturage for cattle and theep, begins with wheat; the fame follies prevail every where: we have feen just the same course pursued in England, and preferibed by writers. Such people think cattle and sheep of no importance at the beginning of these improvements. This wheat, limed at the rate per arpent, of feven or eight tonneaux, of twenty-five boilfeau, each eighteen pots of two pints; four boiffeau of feed fown, and the crop forty beiffeau. After this wheat fown, five boiffeau of oats, the crop forty. Then barley, feed four boiffeau, produce twenty to twenty-five boiffeau. With this barley clover fown; mown the first year twice, and pastured the second; being then ploughed for wheat, which is inserior to the original crops; then oats and fallow again. From all these crops it is sufficiently evident, that Frerc's farmers esteem corn, and not cattle, the proper support of a new improvement. The fall which has been thus reclaimed is on a stone quarry in general; a friable sandy loam, covered with a strong spontaneous growth (where not forest) of sura, fern, and in some places, heath; mixed with much grass, and even clover and millesolium; which, if properly stocked by cattle, well sed in winter, would be of considerable value in its present rough state.

Though the methods pursued have not been calculated on the best principles, yet there is certainly a considerable degree of merit in the undertaking. Last year's crop of wheat produced forty thousand gerbs; and this year (1787) there is one piece of oats, of eighty verges, which gives twelve thousand gerbs, at fifteen boisseau per hundred; each boisseau forty pounds, and the price at present 455. The present stock, two hundred and seven wethers, ten horses, twenty-one working oxen, ten cows, one bull, six young cattle, are certainly sine, for a spot where, ten years ago, Monsieur

Baillio, the bailiff, who has executed the whole, and who feems to be a truly excellent

man, was in a hovel, with no other flock than a dog. The whole improved would now let at 15 livres the verge, 21 to the arpent.

BRETAGNE.—Combourg to Hédé.—Pass an immense waste for a league, but to the left a dead level, boundless as the sea; high lands at one part, seemingly eight or ten leagues off. Every part which the road passes has been under the plough, for the ridges are as distinct as if made but last year; and many ruined banks of hedges cross it in various ways. The spontaneous growth, furz, ling, and sern; the soil good, and equal to valuable crops, in a proper management. The king has part, Monsseur Chateaubriant part, and other seigneurs also; but every body I talked with says, it is good for nothing. Would to heaven I had one thousand acres of it at Bradsield! I would soon put that affertion to the test.

Rennes.—The waste lands, which, in almost every part of the province, extend for many leagues, are almost every where to be bought, in any quantity, of the seigneurs, at 10st the journal, which is to the English acre as 47 to 38, with a small quit-rent per

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St. Brieux.—Inquiring here into the period of the cultivation which I every where remarked on the lander of Bretagne, I was told, that it was no ancient culture, but common for peafants, who took them of the feigneurs, to pare and burn, with the ccoubou; exhault, and then leave them to nature; and this for forty, lifty, and fixty years back. Rented for ever at 20f. to 30f. the journal.

St. Nazaire to Savanal.—Immense bog marked on all the maps of Bretagne, and filling the space of many leagues, covered with vast growth of bog myrtle, and coarse grasses, three or sour seet high; what a field for improvement, in a climate that gives

fuch a fpontaneous growth!

To Nantes. - In the landes, which, strange to say, extend to within three miles of Nantes, there was an improvement attempted some years ago; four good houses of stone and state are built, and a sew acres run to wretched grafs, which have been tilled but all savage, and become almost as rough as the rest; a sew of the banks have been planted. This may be the improvement I heard of afterwards at Nantes, made by some Englishmen at the expense of a gentleman, and all the parties ruined. I inquired how the improvement had been effected: pare and burn; wheat; rye; oats!!!

Thus it is madness. is the ob-

Nante that io la tracks of tion, and I have m Three-fo thing. that is to vicinity o arpents * miles of for ever, Lmean co trary to t folate, the exhausted known in dertaking fheep - ca horfe (if

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Thus it is for ever; the same methods, the same failures, the same folly, and the same madness. When will men be wife enough to know that good grass must be had, if corn

is the object.

Nantes. - I have now travelled round the vaft province of Bretagne, and may observe, that to large a proportion of it is walle, as to be difficult to calculate; I have paffed tracts of land, of three, four, five, and even eight miles in extent, without any cultivation, and I have heard of much more confiderable, even to fourteen leagues in length. I have marked one didrict in the map, which contains fome hundred thousand acres. Three-fourths of the province are either walle, or fo rough as to be nearly the fame thing. This is the more furprifing, as here are fome of the first markets in France: that is to fay, some of the most considerable commercial towns; and every where the vicinity of the fea. There enormous wattes, which are faid to exceed two millions of arpents *, are found, as I have remarked, in my notes on the great road, within four miles of fuch a city as Nantes: vaft diffricts are to be had on leafes, or rather property for ever, on the payment of very flight fines.. The foil is generally very improveable, I mean convertible to evitivation, at a very finall expense, and with great facility; contrary to the affertion of every body in the province, who have been fo used to see it defolate, that they cannot readily believe it capable of a b tter husbandry than being burnt,. exhausted, and left to nature. The means of improving these wastes are absolutely unknown in France, and not much better understood in England. The profit of the undertaking, however, when properly purfued, upon the never-failing principle of grafs sheep-cattle-corn; instead of the common blunder, which puts the cart before the horse (if I may use a vulgar proverb), will be sound great and rapid.

Anjou.—Turbilly.— In the journal part of this work, I have explained the motives which carried me out of my road, to view the wastes of this vicinity, and particularly the improvements of the late Marquis of Turbilly, described at large in his Memoire sur

les Defrichemens, which has been so often cited in almost every language.

The immense heaths, or landes, are in general a fandy or gravelly loam; some on a gravel, others on a clayey, and others on a marley bottom, and others again, on imperfect quarry ones: the fpontaneous growth would predominantly be every where forest, particularly of oak, if it were inclosed, and preserved from depredation. At present, it is wood browfed and ruined, fern, furz, broom, ling, &c. &c. In the defert flate in which the whole country is left at prelent, the value is nothing elfe but what it yields to a few cattle and fleep; not the hundredth part of what might be kept, if any well regulated provision were made for their winter support 1 passed ten miles over these heaths; they were, in some directions, boundless to the view, and my guide affured me, I might continue travelling upon them for many days. When at Tours, I was told of their extending much in that direction also. The climate is good. There are many ftreams that pass through these wastes, which might be employed in irrigation, but no use whatever made of them; there are marl and clay under them for manure, and there is every where to be found plenty of pallurage, for the immediate fummer food of large flocks.-In a word, there are all the materials for making a confiderable fortuneexcept fkill and knowledge.

Such was the country in which the late Marquis of Turbilly fat down, at an early period of life, determining to improve his effate of three thousand arpents in these deferts; with all the necessary activity of disposition; every energy of mind; and that animated love of laudable attempts, to give life and efficacy to the undertaking. Some meadows

^{*} De la Necessià d'occuper tous les gros Ouvriers, par Mons. Boncers. 1789. p. 8.

and plantations, which he made, fucceeded well, and remain; but, of all his improvements of the heaths, to the inconfiderable amount of about one hundred arpents, hardly any other traces are now to be feen, except from the more miferable and worn out appearance of the land; which, after cropping, was of course left in a much worse condition than if it had never been touched. The fences are quite destroyed, and the whole as much lande as before improvement. This flowed from the unfortunate error, so common, indeed to universal, among the improvers of waste lands, and unexceptionably fo in France—that of improving merely for the purpose of getting corn. Pyron, the labourer who worked in all the Marquis's improvements, informed me, that he pared and burnt, which is the common practice of all the country, and then took three crops of corn in fuccession; that the first was very good, the second not good, and the third good for nothing, that is, not above three times the feed: from that moment there was an end of improvement, it only crawled, during many years, to the amount of one hundred acres, whereas, if he had begun on right principles, he would in all probability have improved the three thousand; and others copying his modes, the whole country might by this time have been under cultivation. It was reckoned a valt effort in him to fold two hundred and fifty sheep, and this was the best engine he had in his hands, but giving the fold for corn, it was loft as foon as exerted. Inflead of two hundred and fifty fleep, the Marquis should have had five hundred the first year, one thousand the fecond, one thousand five hundred the third, and two thousand the fourth; and all his paring, burning, manuring, folding, exerted to raife turnips (not their contemptible raves) to winter-feed them; with fo much burning, folding, and eating off the turnips, the land would have been prepared for grafs, and when once you have good grafs, good corn is at your command. Thus corn was the last idea that should have entered his head: instead of which, like other French improvers, he rushed upon it at once—and from that instant all was ruined.

The particular advantages of the spot are considerable, if ever an improver should arife, with knowledge enough to purfue the methods that are adapted to the foil and fituation. The hills of all the country are fo gentle, that they are to be tilled with great eafe, offering the advantage of perennial streams, that run at present to waste in the vales. There are rich veins of white marl, with an under-stratum, in many places, of clay. There is a hill of shell-sand, for improving the stiffer soils and the moory bottoms. There is lime-flowe at the diffance of half a league, and plenty of peat to burn it. The Marquis of Galway's father spread some of the shell-fand on a small poor field, and had an immediate luxuriance of crop in consequence. The present curé of the parish has tried the marl with equal fuccess. But both these manures, and indeed any other, would, be absolutely lost, if a succession of corn crops were immediately to follow. It is this valuable under-stratum of clay and marl which gives such a growth to wood. In pasting from La Fleche to Turbilly, I was amazed, in fome spots, at the contrast between the apparent poverty of the furface foil, and the oaks feattered about it; they are in general eaten up by cattle, yet the bark is clean and bright, and this year's shoots four and even five feet long. A common mode, and indeed the only one of attempting improvements here, is to permit the peafants to pare and burn pieces of the heath, to take five crops in fuccession, but to leave the straw of the last, to fence the piece around, and to sow whatever feeds of wood the landlord provides, ufually oak, for a copfe, which in this villainous way fucceeds well; but as fuch copfes are fenced with a ditch and bank only, and never any hedge planted, they are prefently open and eaten.

MAINE.—Gueffelard.—The lander of Anjou extend over a great part of Moine also.—Here they told me, that the extent in that neighbourhood is hardly less than fixty

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leagues in circumference with no great interruption of cultivation. The account they give of the foil is, that it is abfolutely good for nothing but to produce wood, which it will do very well. The feigneurs fief it out for ever, in any quantity, at the rent of half a bushel of oats an arpent (the bushel thirty pound of wheat), and some at 10 sto 20 st. The peasants pare and burn, and get a very fine crop of rye, then another poor crop of rye, and after that a miserable one of oats; reckoning in common that a burning will give just three crops; after which the land is strictly good for nothing, but is left to nature to recover itself. The price of paring and burning 30 livres per arpent. I can hardly record these instances of barbarism with tolerable patience without dealing exercations, not against a poor unenlightened peasantry, but against a government possessing in demesse immense tracts of these lands, without ever ordering any experiments to be made and published, of the best methods of improving them. But had it come into any such project, and had those experiments had French conductors, they would have been merely with a view of getting corn! corn!

To Le Mans.—Much of these wastes here resemble the fands of Sologne; upon a deadlevel, and water standing in many places; yet the soil a sand; and in spots even a running one: it arises from the ame circumstance which makes them productive of oak timber, wherever preserved, viz. the bottom of clay and marl.

BOURBONNOIS.—Moulins.—Three-fourths of the whole province waste, or heath, or broom, or wood.

St. Pourçain.—As I quitted the Bourbonnois in this vicinity, entering Auvergne, it will not be improper to remark, that the whole province, as well as that of Nevernois, ought, respecting all the purposes of improvement, to be deemed waste. The culture that is carried on, without any exception, on the arable lands, is only fallowing for rye; and, after two or three rounds, the land is so exhausted by this blessed system, that it is left to weeds: broom is the prevalent spontaneous growth in such a case; and if the broom be left for a number of years it becomes a forest. This rye-course produces the landlord for his half (as all is in the hands of metayers) about 2s. 6d. or 3s. an acre through the whole farm, by corn, cattle, &c.; and at fuch rates a valt proportion of the province is chiefly to be bought. Confidering that the lands are all inclosed; that wood enough is every where found; that the country is furnished with a sufficient quantity of buildings; that the roads are excellent; that it enjoys a navigation to the capital; that markets are good and prices high; that there is marl or clay under the fands and fandy gravels; that the climate is one of the finest in Europe; and the country highly pleafant and beautiful: when all these circumstances are well weighed, it will be admitted that no part of France is fo eligible to establish a great and profitable improvement; but, as I must again repeat it, the whole province appears waste to the eyes of an English farmer.

AUVERGNE.—Briende.—The mountains in this neighbourhood too much cultivated; the earth is, by fuch means, washed away by storms, and torrents drive away every thing.

VIVARAIS.—Pradelles.—Pare and burn old turf in these mountains. Great tracts burnt, exhaulted, and left to nature to recruit.

To Thuytz.—Cultivation is carried on in these mountains to an incredible height; and is all by hand. In some cases earth is carried by hand in baskets, to form the terraced beds that yield a difficult and scanty crop, that is brought away on the back. Nothing could possibly support such exertions but the whole being small properties; every peafant cultivates his own land.

PROVENCE.—Tour d'Aigues.—The mountains here are all calcareous, yet they are, from a vicious culture and management, destroyed and abandoned, and yield subsistence to a few miserable goats and sheep only; such mountains in the Vivarais, the President remarks, are covered with superb chesnuts, that yield a good revenue;—this country would do equally well for them, as appears from the very fine ones sound in the park of Tour d'Aigues. The cutting of every bush for burning the earth is the cause; this species of culture loosens the surface, and renders it a prey to torrents; so that all is washed into the rivers, and becomes the destruction of the plains. The Durance, in its whole course of near 200 miles, has destroyed on an average to the breadth of half a league.

General Observations.

In the preceding notes mention is made of great tracts of country fo miferably cultivated, that the whole would by a good English farmer be considered as waste. This is particularly the case in Bretagne, Maine, Anjou, Sologne, Bourbonnois, &c.; and it is this circumstance which reduces the general average product of France to so low a pitch, as appears in the chapter which treats of it, notwithstanding the immense tract of twentyeight millions of rich land, the products of which are of course very high. Here then ought to be the great effort of a new fystem of government in France. The revolution has cost immense sums; and has occasioned a happy defalcation of the revenue, provided it be replaced wifely and equally on some object of general consumption, and not on land: but the public burthens of the kingdom are fo heavy (proportioned to its confumption and circulation) that every attention should be exerted to increase and improve the contributing income; and this can in no way and by no methods be effected fo well and fo enfily as by fpreading improvements over these immense wastes, which are such a difgrace to the old government. The wastes alone are calculated in these sheets at 18,000,000 of English acres; if to these we add the tracts in the above-mentioned provinces, which, though cultivated, are no more productive than waltes, and much of them not of equal profit, we cannot reckon for the whole lefs than 40,000,000 of acres that are in a waste state; not absolutely unproductive, but which would admit of being rendered four, five, fix, and even ten times more fo than they are at prefent. This extent is nearly equal to that of the kingdom of England; whence we may judge of the immenfe resources to be found in the improvement of the agriculture of France; and the wifdom of the measures of the National Assembly ought to be estimated in proportion to their exertions in this respect rather than in any other. If they give a ready, immediate, and absolute right of inclosure; an exemption from all taxation whatever, for twenty-one years; and by a wife lystem of imposts, the future prospect of not being too much burthened; if fuch be their encouragements in addition to the great ones already effected, particularly in the abolition of tythes, they may expect to fee in a few years great undertakings on these desolate tracks. But the policy of a good government will not, in this point, do the whole; it may encourage buildings, inclosures, manuring, and the invellment of large capitals; but if these soils be attempted to be cultivated, as they have hitherto always been in France, failure, bankruptcy, and ruin will be the confequence, and the lands after a few years left in a worfe state than they are in at present. The government should therefore not omit taking the necessary steps to have instructions well diffused for the cultivation of these immense tracts of country; not in the spirit of the

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‡ Experies p. 26, 28, 33

^{*} The edi Monf. Necke minifl. des. Fi abandoned ag wafie lands; flood. See n edict above-m in France on gation of this Cambray, Cal declare, that folly! The cl felves, or let commons that Etat alfo; all for twenty ye † At prefe culture: COM

old * fystem, by printing memoirs, which, if followed, probably would spread more mischief than benefit, but by the exhibition of a farm in each confiderable diftrict, under a right management, and in that degree of perfection of culture which is applicable to the practice of all mankind, of the poor farmers as well as of rich ones; every other species of perfection does well enough for gentlemen to commend, but is not adapted for farmers to imitate. One large farm taken er irely from walle in Bretagne, another in Anjou. a third in Sologne, a fourth in Bourbonnois, and a fifth in Guienne, would be fufficient. If these farms were cultivated on right practical principles, on those of utterly difregarding corn till the ample support of sheep and cattle (but particularly the former) in winter, by means of green crops, and in fummer by graffes, gave such a command and facility of action, that whatever corn was then fown, would in its produce be worthy of the foil and climate of France, yielding ten for one on these wastes, instead of five or fix for one, the prefent average of cultivated lands in that kingdom. If this were done, I fay, the profit of fuch improvements would be equally great and durable; the practice exhibited would take deep root in the respective provinces; and extensive and speedy improvements would be the consequence. By such a policy, the National Assembly would prove themselves genuine patriots; the kingdom would flourish; population, which at prefent is a burthen, would be rendered ufeful, because happy; and the confumption and circulation of these provinces increasing, would give a spur to those of the whole fociety; the weight of taxes would lessen as the basis enlarged that supported it: —in a word, every good effect would flow from fuch undertakings, if properly executed, that can add to the mais of national prosperity, and consequently the most worthy the attention of an enlightened legislature †.

Attempts have been made to improve these wastes, but always with ill success; I saw a neglected farm gone back nearly to its pristine state, not far from Nantes; the Marquis of Turbilly's in Anjou had no better success; and equal failures attended those that were tried on the heaths of Bourdeaux; and I heard of some others, similar undertakings in different parts of the kingdom; but in general they were all equally unsuccessful; and no wonder, for all were conducted on the same plan, with no other object in view than corn; but this is the least important of the products, as it hath been observed, that should be found on new improvements. A French writer; who speaks

^{*} The edict exempting new improvements from taxation was in the right spirit. We are informed by Monf. Necker, that, from 1766 to 1784, no less than 950,000 arpents were declared defriches. De L'Adminifl. des. Fin. 8vo. T. iii. p. 231. There can be no doubt but the greater part of these are long fine abandoned again to nature. I never met with a single person in France who had half an idea of improving walle lands; and I may add that of all other practices in the agriculture of England, this is the least understood. See my "Observations on the present State of Walte Lands." 8vo. In regard to the excellent edict above-mentioned, there occurs a proof of the gross and consummate ignorance one meets with so often in France on all agricultural subjects. In the Cabier du Tiers Etat de Troyes, p. 38, they demand the abrogation of this edict as prejudicial to the nourishment and multiplication of eattle. Even the nobility of Cambray, Cabier, p. 19, are against cultivating commons. The nobility of Pontá Mousson, Cabier, p. 38, declare, that the encouragement of inclosures and defrichement is prejudicial to agriculture; shame on their folly! The clergy are wiser, for they demand that the possessions of walles shall either cultivate them themselves, or let others that are willing on reasonable terms. Cabier de Alclun & Moret, p. 22; and that all commons thall be aliciable for the prosperity of agriculture. Bayonne, Art. 51. And some of the Tiers Etat also; all commons to be divided. Cotentin MS. And new défrichement to be exempted from all taxes for twenty years. Nimes, p. 19. La Rochelle, Avt. 17. MS.

⁺ At prefent (August 1793) we know what the blood-hound government of France have done for agrienture: COMPLETELY rained all that was good in it.

[‡] Experiences and Observations fur les Déscribemens. Par Mons, le Dosseur. Lamballe. 17-5. 4to. p. 26, 28, 33. This gentleman tells us that paring and burning should be practifed only on a calcureous foil,

from experience, as well as the Marquis of Turbilly, prescribes this course; 1, dig, at the expence of 20 livres per arpent of 46,000 feet, in winter, and summer-fallow, with many ploughings and harrowings, for — 2, wheat — 3, 0ats — 4, fallow — 5, wheat — 6, 0ats, &c. &c. This gentleman, who tells us he broke up and improved four hundred and fifty arpents, has not explained how real improvement is to be made without sheep or cattle. Where is his winter food in this preposterous course? If these four hundred and fifty arpents be really improved, they have cost him five times more than they are worth; but I suspect they are—improved a la Tarbilly. It is mere romance to think of improving wastes profitably without a great flock of sheep. The ideas of French improvers seem rooted in a contrary spirit; to the present moment, there is no other plan than the old one of corn. A publication of the year 1791, Memoire sur l'Utilité du Déscrichment des Terres de Castlenau de Medoc, speaks of the same methods—déraciner—labourer—herser—cnsemencer—froment—scigle, p. 5. The same views in every part of the kingdom; but when you inquire for cattle, you have, on some hundreds of acres, seven cows, three mares, sour oxen, and no sheep! (p. 4.)

As the subject is one of the most effential in French agriculture, I will very briefly fketch the right principles on which alone waste countries can be improved to profit. The rapid view which is practicable for a traveller to take, will allow no more than an outline; fully to explain the process would demand a distinct treatise. ---- 1. The buildings, upon which to much money is generally to ufelefsly employed, thould, in a private undertaking, be adapted to that fized farm, which lets in the country most advantageoufly; but in a public undertaking, they should be adapted to that fized farm which is most favourable to a beneficial cultivation of the soil; in the latter case from four hundred to fix hundred acres. This attention to the scale of the buildings flows from the plan of the improvement, which is that of letting the land in farms, as fast as it is well improved and brought into the cultivation, in which it ought afterwards to remain. But whatever the fize of the future farms may be, the flrictest attention ought to be had to keeping this part of the expenditure as low as possible, it contributes little to the productiveness of the land, except what arises from convenient offices for cattle and sheep. -2. The next object is to buy a large flock of sheep, to feed on the lands in their waste flate, that are to be improved; five hundred would be a proper number to begin with. These sheep should be, as nearly as possible, such as the South Downs of England; of the French breeds, the most profitable, and the best to procure, would be those of Roufillon. It is of more consequence to have a breed not too large, and well clothed with a fhort firm fleece, than larger or more expensive breeds. -3. The first summer should be entirely employed in paring and burning, and cultivating at least one hundred acres of turnips and rape, for the winter support of the sheep and plough oxen. After the turnip feafon is past, the paring and burning to continue for rye, artificial grasses to be fown with rye. - 4. Begin, as early in the spring as possible to pare and burn fresh waste. first for a crop of potatoes, on fifteen or twenty acres, and then for two hundred acres of turnips. The turnip land of last year to be sown with oats, on three ploughings; and continue on paring banks to to flate that the ling, and be lime-filling man like man to the wo

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foil, for in Bretagne the peafants get but two or three crops of corn by it; and if more, much dung is requifite. But if they can have two crops of corn, cannot they have one crop of turnips? Cannot they have GRASS, which feems never to be in his contemplation, though almost the only thing that ought to be in view. De Serres knew better, he recommends paring and burning, describes the operation, and answers the objection of those who urged a shorter continuance of the proat, by shewing, that such enses proceed from improper management, and do not occur, if the laws of good tillage be pursued, an cultiver & au respect. Le Théatre D'Agriculture, par D'Olivier de Serres, 410. 1629. p. 64 to 70.

with the oats, over fifty acres, clover-feed to be fown. After the turnip feafon is past, continue paring and burning for tye, as before. The labourers employed in the funimer on paring and burning, to work in the winter on ditching, for forming inclosures; the banks to be planted with white thorn, and willows for making hurdles. This is sufficient that the labourers employed should have work constantly; in summer paring and burning, and managing the hay and corn harvest; and in winter ditching, quarrying, if there be lime-stone on the premises, for burning lime for manure, and if not, digging and filling marl, or chalk, or other manures which may be found under the furface. like manner the number of masons and carpenters should be so regulated, in proportion to the works, fo as to find constant employment through the building season.

The courses of crops will explain the whole business of tillage. On the land pared and burnt, and planted with potatoes in the fpring, the following rotation: 1, potatoes-

2, oats -3, turnips-4, oats, and grafs feeds for laying down.

On the land pared and burnt, and fown with turnips at midfummer: 1, turnips-2, oats - 3, turnips - 4, oats or barley, and grafs feeds for laying down.

On the land pared and burnt, and fown with rye in autumn: 1, rye-2, turnips-

3, oats-4, turnips-5, oats, and grafs feeds for laying down.

All the turnips to be fed on the land with sheep, by hurdling, except the small quan-

tity that would be wanted for the plough oxen.

All the graffes to be mown the first year for hay, and then pastured by sheep, for two. three, four, or more years, according to circumstances. When they wear out, or betray indications of a want of renewal, they may be broken up with a certainty of yielding grain in plenty, but no two crops of white corn ever to be fown in fuccession: by white corn is understood wheat, rye, barley, and oats.

A very easy, and, in fome cases, effectual method of improving heaths, is by grubbing up the plants that grow fpontaneously, and spreading lime upon the waste without any tillage, fowing grafs feeds and covering them by the sheep-fold: it is surprising what a change is thus effected at the finallest possible expence; foils apparently miserable, have

been made at once worth the rent of 20s. per acre.

It is not possible to give more than an outline in such a sketch as this; variations, arising from a difference of foil, will occur, which, though not confiderable, must be marked with care, or useless expences will often be incurred. The method just hinted at is particularly applicable upon those walles, which are in culture sterile, from abounding with the vitriolic acid; the case of many in Bretagne; where pudding stone is found in fome diffricts at fix to eight inches under the furface: cultivation on fuch by the plough may be fo tedious and expensive, that the mere paring and burning, and application of calcareous manure, lime or marl, with grafs feeds and fold, as above-mentioned, would be much the best improvement, as I have myself experienced in a country more vitriolic and sterile than any wastes I saw in Bretagne.

The progress of the flock of sheep will, by its procreation, shew what may be the given progress of such an improvement, providing turnips in the proportion of one acre to five fleep, which will allow enough for oxen and other cattle, and supposing the losses

upon a flock to be five per cent.

If the breed of fheep be good, all the ewes fhould be faved for increasing stock, and the weathers should be kept until two years old and past, fold fat at from two to three years. On fuch a plan a flock increases rapidly, perhaps more so than the capital employed. But the conductor of fuch an undertaking would of course proportion hisflock to his money, to that all the works might be conflantly going on, without flop or

break; to effect which, would demand no inconfiderable forefight and knowledge of the business.

By the plan of letting the lands, as foon as brought into complete cultivation, the capital employed in the undertaking would be exerted to the utmost force and advantage in spreading the improvement over the greatest possible breadth of waste. If the lands were alt to be kept accumulating into one farm, it would grow too vast to be managed with profit; but, by letting, the principal attention, exertion, and force of capital would be always employed where most wanted and most useful; and it is hardly to be believed by those not accustomed to such observations and inquiries, how great a tract of country

might, in twenty years, be improved.

Planting colonies of foreigners upon wastes, has been a favourite method pursued in feveral countries, particularly in Spain and in Russia; such speculations have rarely answered the immense expenses bestowed upon them. The lands are usually but half improved; the husbandry introduced is almost sure to be bad; and the jealously with which the new fettlers are viewed by the natives, prevents their practice from ever being imitated. Such a mode of improvement as is here sketched would be infinitely more beneficial; what was done would be well done, all would be executed by natives, for the only foreigner employed in the business should be the director. There would be no probability of the improvement not being durable and spreading widely, for the lands not being let until the cultivation was completely in train, the profit as well as the method would

be feen by every one.

By executing the improvement of a waste on these principles, ten thousand pounds would have an infinitely greater effect than an hundred thousand expended in any other method: in the German colonies, established in the Siera Morena in Spain, and in various others in different parts of Europe, much attention has been paid to the establishing of little farms only. I do not want to view such, to know that the improvement is beggarly, and the hufbandry contemptible: no waste can be really improved, and to the best advantage, but by means of the sheep, powerfully applied; all other methods are costly, flow, and of weak effect; but no little farmer can have a stock sufficient. This paltry idea, of establishing nothing but little farms, is the result of most impolitical ideas respecting population, which ought never to be the object of a moment's attention. If it exist idle, or beyond the proportion of employment, it is the source of poverty and wretchedness; it is valuable only in proportion to regular and active employment; find that employment, and you will have an industrious active population in spite of every obitacle. But small farms and little divisible properties, increasing the people without increasing employment, has no other tendency than to propagate idle beggars, and to differninate modes of husbandry calculated to exhaust the land, and keep its cultivators in mifery. This is not theory but fact, of which almost every province in France abounds with glaring inflances. But of this more in another chapter.

There is another fort of waste land, that abounds also very much in France, I mean marshes: it is afferted, that there are from 1,200,000 to 1,500,000 arpents of them in France. The improvement of these is vasily more expensive and more difficult than that of landes, heaths, moors, &c. The drains demanded for them require a considerable capital. These ought to be converted to meadow and rich pasture, by means of draining. Where they admit it, the cheapest improvement of such is by irrigation; the general drainage of great marshes, if not trusted by the assemblies of the departments to

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^{*} Rapport du Comité d'Agriculture, Ge. 7 Fev. 1750, par M. de Lamerville, deputé de Berri, p. 3. De la Necessité d occupir tous les gros Ouvriers, 1758, par M. Boncerf. p. 3.

the conduct of some one able director, should be done by commission; by constituting a company as in England, and paying the expence by a tax on the lands drained. If the rage for small farms continue, these marshes, in proportion as the soil is boggy, will admit of being divided into small portions, that is of thirty to fixty arpents, but it should be under an absolute prohibition of the plough. The bog, which I saw in passing from Auvergnac to Nantes, and which seems from its appearance on the map of Bretagne, to be of a vast extent, is highly susceptible of improvement, and every acre of it might be converted into rich meadow.

CHAP. XXVII .- Of Coals in France.

Limousin.—Limoges.—I was here affured that a vein of coal has been found at the depth only of twelve yards, which is seventeen feet thick, but it is no where used, either in houses or in manufactures; the iron forges are all worked with charcoal. If this is fact, what a want of capital it proves!

FLANDERS.—Valenciennes.—There are mines worked here. The manco of two hundred and forty pounds fells for 23/. 9 den. and the worst of all at 12½/.; the largest of all at 35/. and 36/.; they are more abundant at Mons. Wood is burnt here at the inns, and all the better private houses, but the poor burn coal: the mines they say, are seven hundred feet deep; the coal is drawn up by four horses; they have four steam engines.

Lille. - Coals, the raziere, 3 livres.

Dunkirk.—English, the raziere of three hundred pound, 8 livres. These are burnt in every house in the town, and are one-third cheaper than wood: there is a canal to to the coal pits at Valenciennes, but the distance too great, and locks too numerous and expensive to rival the import from England.

Bethune.—Pits within a few leagues. Price here 44 f. to 46 f. the raziere, which, I have been told, holds about nine English pecks, but the raziere of St. Omers holds one

hundred and ninety-five pounds of wheat.

Rouen. - The boiffeau of twenty-two pots, each two bottles, 3 livres 10 /.

If gny.—A mine newly opened, at which the coals fell at 14/. 1 liard the boiffeau of ninety pounds to one hundred pounds.

Carentan.—Coals of the country only for blacksmiths, 145 the boileau of eighty pounds dry at the mine, but wet are ninety pounds or one hundred pounds: they are

not half fo good as what is brought from England.

Cherbourg.—In the manufacture of blown plate glafs, a great quantity of Newcastle coal is burnt; thirteen keet, or one hundred and three chaldrons cost, all English charges included, about 750 livres; the French duty 3600 livres; and port charges, &c. make it in all about 11,000 livres, which being near 5l. a chaldron seems an enormous price, at which to buy suel for a manufacture. The coals of the Cotentin, they say here, are good for nothing.

Granville.—The blackfmiths burn Guernfey coals.

Auray.—English coals 3 livres the boilieau of about three English pecks, which the

blackfunths use for particular purposes.

Nantes — French coal 300 livres the twenty-one barriques, each double winemeasure, or four hundred and eighty pints, but one barrique of English is worth two of it.

A coal mine worked by a Monf. Jarry, at Langein, five leagues from Nantes. Another at Montrelais, near Ingrande; and at St. George, near Saumer. The French coals used in the foundry, near this city, come to 34 livres the two thousand pounds.

La Fleche.-Price 16 f. the boiffeau, of thirty pounds, wheat; they are from

Angers.

Rouen.—Monf. Scannegatty works the common borer with a windlass in boring deep for coals, for which purpose he has been employed by government: he shewed me the model of one made at Paris, three hundred feet long, with this he has bored one hundred and fixty feet, much of it in hard rock, without accident; his objection to shafts is the water rising, he would use shafts until he comes to water, but after that must bore. He says the badness of the coal in the mine near Cherbourg, arises merely from being ill worked; they have got at present only to the surface coal, instead of piercing through the bed. M. Scannegatty afferts the consumption of English coals in the generality of Rouen to be two millions a year. The price is 40 livres for fix and a i all barriques, each barrique one hundred and sifty pounds, or nine hundred and seventy-five pounds, or about 80 livres a ton.

Elbauf.—Consumes 200,000 livres a year in English coals.

Nangis. - Brought from Berri. Price 4 livres the English bushel.

LORRAINE.—Pont-à-Mousson—From Sarbruck 18 livres the thousand pounds. At the mine 5 livres.

ALSACE.—Befort.—Price at the mine, four leagues from this place, 12 f. the hundred pounds; here 16 f. They are used only by blacksmiths.

BOURGOGNE.—Chagny.—Coals from Mont Cenis; at the mine 6 livres the wine

queu-here 10 livres. Nobody burns coals in their houses.

Mont Cenis.—At the mine a ban 10 f. It is remarkable, that at the inn here and at every house, except those of the common workman, wood is burnt: which shews the abfurd prejudices of the French in favour of that fuel, in spite of price.

BOURBONNOIS.—Moulins.—Price 30 f. the bachole, of which four makes a poincon.

AUVERGNE.—Clermont.—Price 10 livres the raze of two feet two inches, by one foot fix inches, and nine inches deep. Used only in stoves or by blacksmiths, they are from Brioude.

Brioude .-- The raze, of one hundred and fifty pounds, 16 f. but the best is 20 f.

Fix.—The carton of fifty pound 14 f.

VIVARAIS.—Cofferos.—The quintal 50 f.
Thuytz.—The blackfmiths here burn charcoal, yet are near the coal mine which I

passed in the vale; it is a stone coal; the price 7 st. the hundred pounds.

DAUPHINE'.—Montelimart.—Large coal 1 livre 15 s. the one hundred and fifty-five pounds; fmall, for blacksmiths and manufacturers, 22 s. the one hundred and fifty-five pounds. The mine is at Givors near Vienne, at five leagues from Lyon; there is a canal to Vienne, but with a toll. Coak, made of coal, for melting, 5 s. the quintal.

Pierre Latte. - Coals 3 livres the measure of about fix pecks; none used by black-

fmiths.

PROVENCE .- Tour d'Aigues .- Price 40 f. the quintal. 16 f. or 18 f. at Aix. At the

mines three leagues from Aix, 5/.

Marfeille.—Coals from Givors in Dauphiné near Lyon, 33 f. for two hundred and ten pounds, of Faveau in Provence, 40 f. to 24 f. for three hundred pounds. Of Valdonne 41 f. ditto; used in the soap fabric and sugar refineries. Of England 42 f. to 45 f. on board the ship, for two hundred and ten pounds; on shore 60 f. for one hundred and sinety-five pounds.

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VOL. I

LYONNOIS. — Lyon. — Coals 30 f. the one hundred and thirty pounds. The mines are fix leagues off, price there 24 f. for one hundred and fixty pounds: there is a canal from

the pits to the Rhone.

The want of vigour in working the coal-mines in France, is to be attributed to two causes; 1. the price of wood has not risen sufficiently to force this branch of industry; and, 2. the want of capital which affects every thing in that kingdom, prevents exertions being made with the necessary animation. But these evils will correct themselves; the gradual rise in the price of wood, which so far from being an evil, as it is universally thought in France, is only a proof of national improvement, will by degrees force the consumption of coals; and when these are in the necessary demand, they will be produced in greater quantities.

CHAP. XXVIII. - Woods, Forests, Timber, and Planting, in France.

Pyrennées. — A confiderable proportion of these mountains is under wood, and a much larger has been; for the destruction of them making every day is not credible to those who have not viewed them. Passed frequently through several woods near Bagnere de Luchon, in which the woodmen were at work, riving and cutting beech staves for casks; I was shocked to see the destruction they made, which could not have been more walteful or lavish if they had been in the midst of an American forest. Large and beautiful beeches are cut off, three, four, and five feet high, and those noble slumps left to rot; whole trees, which on trial would not rive well, left for years, and now rotting untouched: and in working those we saw, nothing but clean cuts taken, three or four feet perhaps in fifty, and the rest left on the ground in the same consuston in which it fell. The destruction so general in this noble forest of Lartigues, that it is almost destroyed; there is no young growth for succession; and in ten or twelve years it will be a bare mountain with a few miferable shrubs browzed by goats and other cattle. In some tracts which I passed, at a few leagues distance towards the walks of the Spanish flocks, there are fome forests destroyed in fuch a shameful manner, that to a person, from a country where wood is of any value, must appear incredible; several scores of acres fo utterly destroyed that not a tree remains standing; yet the whole a forest of stumps, three, four, and fix feet high, melancholy and shocking to behold. The torrents every where roll down as much wood as stone, and present a spectacle of similar ruin; the roads are formed of fragments of trees, and are guarded against the precipices by whole ones laid and left to rot; you no where pass many yards without thrusting your cane into bodies, rotten, or rotting; all is ruin, wafte, and defolation; and the very appearance one would suppose a wood to carry, in which a foreign enemy had, with the most wanton malice, destroyed every thing.

These woods are commons belonging to the communities of the parishes, upon which every inhabitant assumes the right, and practises the rage of depredation. So careless of the interests of posterity, or rather so instance against every idea but that of the present moment, that, in the general opinion, there will be an undoubted scarcity in thirty years, amidst what have been, and yet are, in some districts very noble forests. The communities sometimes sell woods; an instance occurred lately, that of Bagnere de Luchon sold a sall for 14,000 livres, but worth, it is said, 35,000 livres, in which some pilfering might take place; this was to pay their share of the new bathing-house. Is it possible that such a recital can be given of a country that imports pot-ash from the dis-

tance of two thousand miles?

The number of faw mills in these mountains, turned by torrents, is considerable; they are of a very cheap and simple construction, but exceedingly incomplete, having no mechanical contrivance for bringing the tree to the saw, a man constantly doing it by pressing with his foot on the cogged wheel.

Languedoc.—Lunel.—At the Palais Royal inn there is one among many stables which is covered by twelve large beams, fixteen or eighteen inches square, and forty-five feet long. The whole country is at present quasi such trees as these, denuded.

GASCOGNE. - St. Palais to Anspan. - An oak here fells for 30 livres, which would in

England fell for 45s, to 50s.

ISLE OF FRANCE.—Lieurfaint.—In the royal forest of Senars, the oak copses are cut every twenty years, and sell at 600 livres the arpent (the cord of wood selling at Paris, at 50 livres), which makes 30 livres a year, but from this carriage is to be deducted, and

there will remain about a louis d'or.

Liancourt.—Woods here form a considerable portion of the whole country. They are in general cut at twelve years growth, but in some parts at fifteen and twenty; they sellat twelve years from 100 livres to 200 livres the arpent (about one acre and a quarter): at 150 livres, it may be called 12 livres per ann.; as they are on the poorest land this is much more considerable than the same land would let for, but it is much inferior to what the product of the same lands would be under a tolerable system of cultivation. The quantity of forest spread over the country, in almost every direction, makes timber cheap: oak, ash, and elm sell at 30 s. the cubical foot, a larger foot than that of England. The

poorest family 60 livres a year in wood.

Clermont.— Near this place, in the forest of la Neuville eu Haye, belonging to the king, there is an undertaking now (1787) going forward, which does honour to government: it is a plantation of oak for timber. The land is inclosed with pales, wired to the rails in the French manner, instead of nailing? the land is all trenched two feet deep, for which the workmen are paid according to the foil, 20 f. to 40 f. the fquare perch of twenty-two feet, and they earn about 22 f. a day: as it was an old forest where they work, there are many roots, for extracting which they are allowed fomething more. The foil in general is a good light loam, except in fome parts on a pure white fand. The whole expence by contract (fencing excepted), digging, planting, filling vacancies, and hoeing twice a year, for five years, is 300 livres the arpent, of about one acre and a quarter. The fence is 3 livres the toile, or about 1s. 2d. a yard, running measure: fixty arpents are done, and they are still at work. I viewed the oaks with pleasure; they are most of them remarkably fine; they thrive well and are very healthy; some are five years old from the feed, and others five years old from transplanting; the plants then three years old: these are the largest, but not more so than three years' difference in age ought to make them; they are in rows at about four feet. There is also a small inclofure of chesnuts and Bourdeaux pines (pinus maritimus,) sown four years past, which are now five feet high, which is a vast growth. The only enemy which the oaks have hitherto met with is the cock-chaffer grub, which has killed fome.

Dugny.—Monf. Cretté de Paluel has planted many thousands of the poplar with success, and has cut them when only twelve years old, large enough for building. Several of his farming offices, very well and substantially built, are of this wood, erected twelve years ago: and the timbers are now as sound as at the time of using; but he has sound

that when exposed to the weather it does not last.

NORMANDIE.—Bon.—The feat of the Marquis de Turgot, elder brother of the celebrated controleur-general. A large plantation of foreign trees, in which nothing is fo remarkable as the superiority of the larch to every other plant.

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Falaisc.—Woods at twelve years growth, pay 8 to 10 louis an acre, or 22 livres a

vear.

Harcourt.—The larch and Weymouth pine of eighteen years growth, have thriven beyond any thing. I measured a larch of that age, three feet six inches in circumference, at five feet from the ground; and a Weymouth two inches larger. Woods throughout Normandy, on an average, pay 20 livres the Norman acre (108. 6d. per English

acre)

La Roche-Guyon.—There is nothing in this country that pays better than plantations of willows for yielding vine props. The Duchess D'Enville has a piece of three and a half arpents, which yields 400 livres a year, by being cut every third year. New ones are fet as the old wear out; the heads are cropped at three years old, and the great product is from nine to eighteen years of age. Lombardy poplars planted by the prefent Duchess, of twenty-four years growth, are worth 11 livres each, standing only six feet as funder: it would be useless to apply calculation to this fact, to see what the acreable produce would be; for if a man had a few acres to sell every year, he would be able to get no more than the price of a very bad fire wood, not saleable till after every better fort in a country was confumed. Could a demand be found the profit would be enormous. They grow on the level of the Seine. They are cut into boards ten inches wide, which sell at 2 st the foot.

ISLE OF FRANCE.—Columiers.—Woods at nine years growth, worth 180 livres the

arpent (91. the English acre).

CHAMPAONE.—Mareuil.—At twenty years growth, worth 300 livres the arpent (101. 103 ther English acre), at one and a half or two leagues from the Marne, but if further, 4 the per arpent per annum deduction.

Ep --- It is possible to go from hence to Alface, with no great interruption, through

forest all the way.

LORAINE.—Braban.—Woods are cut at twenty years growth, and the produce 12 livres per ampent per annum (18s. 4d. per English acre).

Meiz. - Woods cut at twenty to twenty-five years growth, 120 livres the journal.

Luneville.—Woods cut at twenty-five or thirty years growth, from 40 livres to 100 livres net the journal, one thousand nine hundred and seventy-four English yards.

Franche Comte'.—Befançen.—Cut at twenty-five years growth, and yields 150 livres to 200 livres the cutting, or 8 livres per annum per arpent; near the forges of the

city, to 300 livres (10l. 10s. per English acre).

Orchamps.—A little auberge consumes from twenty to thirty waggon loads, each 8

livres in a year at one fire.

BOURGOGNE.—Auxonne.—País a wood felled and corded, twelve cords per English acre; the cord eight feet by four feet, and two high; and the price 8 livres. A little aubergiste consumes to the amount of 200 livres a year one fire. It would cost a poor family 80 livres a year, if they hought fairly all they burn. Calculate

Four millions of families, at one cord, and at ten per acre,
Cut at twenty years,
At two cords,
At three ditto,
Cut at twenty years,
At three ditto,
Cut at twenty years,
At two cords,
Cut at twenty years,
Cut at twenty years,
Cut at three ditto,
Cut at twenty years,
Cut at three ditto,
Cut at twenty years,
Cut at three ditto,
Cut at twenty years,
Cut at twenty yea

Dijon.—Consumption of one fire, five or fix maul for the poor, the maul four feet cubical. Of the whole town of twenty-four thousand people, forty thousand maul. Best oak timber, 3 livres the cubical foot. Inferior to 20 s. Elm dearer than oak; used for wheel carriages only. Pine one-third cheaper.

3 7

BOURBONNOIS.—Moulins—Copies cut at fifteen years growth, and fell at 50 livres the arpent, of forty-eight thousand three hundred and eighty-four feet; no expence except cutting. Oak timber, 18 f. to 20 f. the cubical foot. Flanks of nine, ten, and eleven inches wide, 45 livres to 60 livres the hundred toise (fix feet), 4 inch thick. Laths 14 f. the faggot, of fifty-two, and five feet long.

AUVERGNE .- Riom .- One fire, and a very poor one, 80 livres, if bought.

Clermont.—A poor family, to steal none, must have ten cord, or 60 livres, and charcoal to the amount of 15 livres; but in general they steal, or collect as well as they can.

VIVARAIS.—Pradelles to Thuytz.—Great woods of pines in these mountains, with

faw mills for cutting them.

DAUPHINE' .- Loriol .- Oak 12 f. the hundred pound.

PROVENCE.—Tour d'Aignes.—Wood thrives greatly in this country. The President has a great many oaks, and some of a vast size; also black poplar and beech. One by the farm-house, thirteen seet eleven inches, French, in circumference, at five feet from the ground, and eighty feet high. Here also are ever-green oaks, sive hundred years old. He has platanus of a vast growth, in twenty-sive years, and the morus papyrisera, of a great size. The poorest family in this country consumes sixty quintals of wood a year, stolen or bought; generally the former. A bourgeoise, that has soup every day at one sire, one hundred and sifty quintals.

Fréjus to Estrelles.—The pines, &c. in these mountains, hacked, plundered, and destroyed, almost as wantonly as in the Pyrennees: and spots every where burnt by the

shepherds, though prohibited, in order to procure herbage for their flocks.

	ice per ris load
	140 ft.
1787.—Limousin.—Limoges.—Charcoal 30s. the quintal.	liv,
Angoumois Verteuil Cord of wood 10 livres near a navigation; 3 livres a	1
a distance.	
ISLE OF FRANCE.—Mc.itgeron.—Cord 44 livres.	
FLANDERS.—Lille.—Ditto 60 livres.	
Dunkirk.—Ditto 60 livres the load of one hundred measures.	
1788NORMANDYCaen-Charcoal 20 f. the raziere, of forty pound o	F
wheat.	•
Cord of beech wood, fix feet long, four broad, and four high, 24 livres,	0.4
Other woods 18 livres to 20 livres,	35
	27
Faggots of three and a half feet round, and five feet long, with large wood in	
them, 60 livres to 80 livres per hundred.	
BRETAONE Rennes Cord eight feet long, four high, and two and a half	ť
broad, 15 livres to 17 livres,	28
Landernau Cord eight feet by four feet, and two and a half high, 24 livres,	42
L'Orient.—Cord eight feet by four feet, and two and a half high, 20 livres,	35
Auray Charcoal 3 livres the barrique. Iron 5/. the pound. A horse show	, ,
12/.	
Auvergnac.—Cord of wood, 28 livres, -	49
Nantes Ditto 30 livres to 36 livres,	
Swedish iron 280 livres the thousand pound. Hemp 50 livres the hundred	57
gitto.	
_	
Δ	ncenis.

Ancenis . -Anjou. ble cord, 40 Faggots 18 La Fleche Charcoal 70 MAINE .livres, . Ditto of oal NORMAN pound, or work, and Elbauf .-La Roch ISLE OF price 24 liv CHAMP. feven inche White woo Charcoal 5 Epernay. St. Mene the town 1 LORRAI livres, N'ar-le-21 livres, Metz.-32 livres; Of oak, 22 Pont à-i 19/. In the fore Nancy.

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Price Paris i	load
of 140	liv.
Ancenis Cord 24 livres. AnjouAngers Cord eight feet long, four feet high, and four broad: a dou-	42
ble cord, 40 livres. Faggots 18 livres to 24 livres the hundred.	42
La Fleche.—Cord 16 livres to 21 livres, Charcoal 70 livres to 80 livres the forty-two barriques.	39
MAINE.—Guescelard.—The cord, fix feet by 3½ feet, and 3½ high, of pine, 6	
Ditto of oak, 14 livres,	12 26
NORMANDY. — Gacé. — Charcoal 52s. the barrique. Iron 23 livres the hundred pound, or 1 liard less that 5s. the pound. They charge 8s. the pound for heavy work, and 32s. for shoeing a horse.	20
Elbauf.—The cord eight feet by four feet, and 21 high, 24 livres, - La Roche Guyon.—Cord eight feet by four feet, and four high, is 30 livres,	42.
ISLE OF FRANCE.—Nangis.—Cord twelve feet by four feet, and four high:	32
price 24 livres to 28 livres, CHAMPAGNE.— Mareuil.— Cord eight feet long, five feet high, and three feet	18
feven inches broad, fells, oak 36 livres,	31
White woods 24 livres,	21
Charcoal 50s. the tonneaux, of two hundred pints of Paris (quarts).	
Epernay.—The cord 40 livres, Sr. Manghoud.—Cord eight feet by four feet, and 3½ inches: 18 livres 106; in	40
the town 19 livres; but twenty-five years ago it was 7 livres to ten feet,	24
LORRAINE.—Bravan.—Cord eight feet by four feet, and four high, is 19	-4
livres.	20
Nar-le-Tour Cord eight feet by four feet, and four high, is 16 livres; the best	
21 livres,	20
Metz.—Charcoal 30/. the fack: cord eight feet by four feet, and four high; is	
32 livres; of beach and hornbeam,	35
Of oak, 22 livres, Pont à-Mouffon.—Cord eight feet by four feet, and 4 high: in town 16 livres	24
100 a. would be seen that the seen and a man in town to have	18:
In the forest 12 livres.	10.
Nancy Cord floated oak 20 livres; other forts 23 livres,	28
Not floated oak 26 livres; beech and hornbeam 34 livres, -	37
I uneville Cord eight feet by four feet, and four high: now 24 livres to 28	
livres.	
Beech,	28
Oak 22 livres to 23 livres,	24
Alsace.—Strafbourg.—Cord fix feet by fix feet, and three high: price 27	.0
Scheleftat.—Cord fix feet by fix feet, and three high; price 24 livres .	38
Me.—Cord eight feet by four feet, and four high; price 12 livres, yet many	3.1
iron forges,	14

Price per
Paris load of 140 ft.
FRANCHE COMTE'.—Befançon.—Cord eight feet by four feet, and four high, hv.
floated, 16 livres 10/ 18
Not floated, 25 livres, 27
Orchamps.—Iron; all used by blacksmiths; is of the country; 5s. the pound.
Charcoal only used in making it, at 40 livres the load of four horses, about fifty or
fixty bushels; there are forges spread over the whole country: one within three
leagues, which, with its furnace, uses fifty loads of wood per diem. Shoeing a
horse 40f.
Dijon.—Cord 71 feet by four feet, and 41 high, at 26 livres the mocul, a cube
of four feet, and the price 13 livres, 26
Price of carriage 20%, per thousand pound for each league.
Chagny.—Mœul, cube of four feet, 13 livres to 16 livres, - 31
Iron: tier of wheels 7/. the pound and 8/. for the nails. Price of iron 5/.
ı liard.
Moulins Cord, two to a coche, 30 livres. Charcoal 31/5 to 3/5 the English
peck. Iron 1 liard under 5/2 per pound. Cast ditto 3/.
Clermont Cord three feet eleven inches, by seven feet four inches circumse-
rence; price 6 livres, about one-fourth of a Paris cord, 24
Charcoal 2st the pound.
Fix.—Iron 5½ f. the pound.
Montélimart Charcoal 5s. the hundred pound.
Pierre Latte Wood 20% the hundred pound.
AvignonWood 18s. to 20s. the hundred pound. Charcoal 3 livres the hun-
dred pound.
Tour d'Aigues Charcoal 45s. the hundred pound.
Marseille.—Wood 3 livres 17/. for three hundred pound, and 8/. carriage from
the ship.
In winter the fame, 5 livres. Charcoal, by shipping, 50s. the quintal, one hundred
and twenty pound; by land 70/.
Lyon Oak, the moul, three feet eight inches square, 23 livres.
General average, 30
To these data may be here added, that the woods and forests of the kingdom amount
to 19,850,515 acres, and that the average annual produce may be reckoned 14s. an
acre. It here appears, that the average price per cord, of one hundred and forty cubi-
cal feet, is 30 livres.

The price of wood has rifen confiderably in France. Price of the lignier, equal to two Paris voics, at Bourg, in Breffe.

In	1688,	•	•	3 li	v. o/.
	1718,	•	-	3	12
	1748,	•	•	7	10
	1778,	•	•	9	0
	1789,		-	21	0*

The fearcity of wood in France, as marked in this rife of price, has occupied at least an hundred pens during the last ten years: almost all the cahiers complain heavily of it, and in that of the clergy of Meaux, they call it a real caramity. There is hardly a society of

stances whi feparately, the rent of price of wo actually a r what they tion; and I would in to the plou would be p tion, no or fiderably to be confider woods whe age man y a at interest, quadruple, is it to be good man and in fom rifen to a land owne them, well fuch a par. There is much too kingdom,

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We have

Observations sur l'Agriculture, par Ma Varenne de Fenille. 8vo. p. 141.

agriculture in the kingdom, that has not offered premiums for memoirs that should explain the causes of such an alarming want, and point out the best means of remedying The opinion is universal; I have met but one mind upon the topic, which, confidering the talents for political occonomy, furpriled me a good deal; for I must declare myself of a directly contrary opinion, and venture to affert, that the price of wood is too low in France; that it has not rifen fo rapidly as it ought to have done; and that all ideas of encouraging plantations, to prevent a further rife, are ignorant and mischievous, and founded in a total misconception of the subject, for want of combining those circumstances which bear upon the question. The rent of arable land, in France, calculated feparately, and rejecting the parts left waste, and in neglect, is 158. 7d. an acre; but the rent of woods is only 12s. How then in common fense can any one complain of a price of wood, which, instead of being at its present rate an injury to the consumer, is actually a material one to the landed interest, who do not make by their woods nearly what they would do by the land if it was grubbed, cleared, and converted to cultivation; and I am fo well perfuaded of this, that if I was the possession france, I would most assure that did not grow upon land impracticable to the plough; and I should do this under the firmest conviction that my speculation would be profitable. If tillage improves, and freed from tithes and inequality of taxation, no one can doubt but it will improve, the price of wood ought to rife very confiderably to prevent landlords, who are well informed, from grubbing up; and let it be confidered how vast a premium there is to induce them to such a conduct, in all woods where the growth is ancient, as forty, fifty, fixty, and a hundred years, at which age may are found in France: the money which the fale of fuch would produce, placed at interest, and the land converted to tillage, would in most instances treble, and even quadruple, the revenue to be gained from the fame land while cropped with wood. Nor is it to be forgotten, that fresh wood-land is generally fertile, possessing stores that, with good management in respect to cropping, may be made to last at least twenty years, and in some measure for ever. We may safely determine that the price of wood is not rifen to a fair par with other land products, until it can no longer be the interest of the land owner to grub up, and till woods yield as good a revenue as the lands around them, well cultivated. It is an undoubted fact, that the price is not yet rifen near to fuch a par.

There is yet another, and equally unquefunable proof, that the price of wood is much too low in France, and that is the coal mines, found in almost every part of the kingdom, emain for the greater part unworked; and that the people burn wood even in the immediate vicinity of such mines; I was myself served with wood at all the inns, at and near the coal mines wrought, of Valenciennes, Mont-Cenis, Lyon, Auvergne, Languedoc, Normandie, Bretagne, Anjou, &c. &c. Is it possible to suppose that this

would be the case if wood was risen to its fair par with other commodities?

The conclusion to be drawn, from this state of facts, is sufficiently clear, that the legislature ought not to take any steps whatever to encourage the production of wood, but leave it absolutely free to rise gradually to that fair price to which demand will carry it; and that the societies and academies of agriculture, composed of citizens, that is to say, commonly of mere consumers, uninterested in the production, ought to cease their unjust and impertinent clamour against the price of a commodity which is much too cheap. Whenever the price of wood rises too high, coal mines will every where be effectually worked, and the people in fight of them most assured will not burn wood.

We have of late had, in England, the same vulgar apprehension of a want of wood, especially for ship building, which has disgraced France. No wonder timber has been destroyed.

destroyed in both kingdoms, while the price was inadequate to the expense of raising it. Timber for thip building, as well as cord-wood, thould at least bear a proportion with corn, meat, butter, wool, &c. which the ground might yield if not occupied in a different manner. The comparisons made are by landlords, who look only at rent, but the national interests require that produce should be consulted. The argument commonly ufed, by the proprietors of the landes of Bourdeaux, against cultivating them, is, that they yield at prefent, in pines, a better rent in refin than they would do for cultivation, which is certainly true, if the culture introduced was not good; but what a lofs to the nation to have lands employed to yield, like all the woods of the kingdom, a gross produce of 16 livres per acre, instead of 40 livres, the produce of arable land? Those who contend for encouragement to planting, because wood is dear, call for the marvellous improvement of converting land, which now yields 40 livres, to the state of yielding 16 livres! It is just the fame in England; our societies offer premiums for planting, and, as far as those premiums are claimed, or induce men to think planting an improvement, they are attended with the mischief and absurdity of preferring a small to a great produce. There are tracts of impracticable land, I will not fay waste, because nine-tenths of our waste lands, like those of France, are susceptible of cultivation, and therefore it is a public nuifance to plant them: it may be profitable to the landlord to plant quick growing trees, because he considers only rent, but societies and the nation should look at produce, and confequently discourage all planting.

The common argument, that is founded on the supposed necessity of a Royal Navy, I should be forry to bestow three words upon; for I hold every idea of a great naval force to be founded on very questionable theories. Injurious to other nations in its object, which is that of extending to the most distant parts of the globe, the mischievous effects of ambition, and all the horrors that attend the spirit of conquest, when slowing from the worlt spirit of foreign commerce. A great navy assords the means of spreading what may to Europe be called a domestic quarrel to the most distant regions of the globe, and involving millions in the ruin of wars, who are in justice as unconcerned in the difpute as they are removed by distance from the natural theatre of it. And whatever commercial necessity, founded upon the worst principles, may be urged in the support of it, yet the expence is fo enormous, that no nation, it is now well understood, can be formidable both at land and fea at the fame time, without making efforts, that throw our own burthens, by means of debts, on our innocent posterity. Mr. Hume remarks, that the British fleet, in the height of the war of 2740, cost the nation a greater expence than that of the whole military establishment of the Roman Empire, under Augustus, while all that deserved to be called the world was in obedience to his sceptre; but in the late war, the expense of our fleet amounted to more than the double of what attracted the notice of that agreeable and profound politician, for the naval expence of 1781 arose to 8,603,8841.

The ambition of flatesmen is ready at all times to found upon a great commerce the necessity of a great navy to protect it; and the next step is, the supposed necessity of a great commerce to support the great navy; and very sine arrangements, in political economy, have been the consequence of this mischievous combination. The delusive dream of colonies was one branch of this curious policy, which cost the nation, as Sir John Sinclair has calculated, two hundred and eighty millions! Rather than have incurred such an enormous expence, which our powerful navy absolutely induced, would it not have been better had the nation been without commerce, without colonies, without a navy? The same madness has insested the cabinet of France; a great navy is there also considered as essential, because they have in St. Domingo a great colony; thus one nuisance

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But what them, which haufting the on the Add five, but the tury, we us mense confive centuristics.

A veffel of timber †

I cannot in France, I have been a I faw many greens, and difgraceful to France will cher many lo

SOME for together than of practices,

LANGUED only faggots

^{*} And nov Thrift newly rewi † Recherches | † Encyclopédie VOL-1V.

nuisance begets another. The present century has been the period of naval power. It will cease in the next, and then be considered as a system founded on the spirit of commercial rapine.

But whatever necessity there may be for navies, there is none for raising oak to build them, which it is infinitely better to buy than to cultivate. There is no prospect of exhausting the oak of the north, of Bohemia, Silesia, Poland, Hungary, and the territories on the Adriatic, for centuries to come; the price will rife as carriage becomes expenfive, but the supply will remain for ages. So long ago as the beginning of the last century, we used fir for building, from the scarcity of oak *; and notwithstanding the immense consumption since, the countries that supply it promise to continue that supply for five centuries to come.

A vessel of the first rank is said, in France, to demand fixty thousand cubical feet of timber †; but a later account makes it much more confiderable.

Cubical feet,—First species, Second ditto, Third ditto, Fourth ditto, Fifth ditto, Plank,	Quantity in a Shi of 116 Guns. 77,520 39,840 5,896 1,250 180		Quantity in a Ship of 74 Guns. 47,356 16,161 12,300 1,780 19
Fir, The common price	126,681 8,449	 ho foot	79,113

I cannot quit the subject of woods without remarking, that many of the nobility, in France, have given that attention to the introduction of exotic trees, which would have been a thousand times better applied to improving the agriculture of their districts: I faw many places, the owners of which affected to make a reputation by their evergreens, and other plantations, while living in the midst of lands, under a cultivation difgraceful to the kingdom, and the same even on their own farms. For one sol that France will ever be improved by their exotics, it was in their power to have improved her many louis, by very different exertions.

CHAP. XXVIII .- On some Œconomical Practices in France.

SOME scattered minutes, not absolutely useless may perhaps better be thrown together than burnt; for ingenious men fometimes catch hints from a dight mention of practices, and apply them to uses not at first thought of.

Building.

LANGUEDOC .- Montauban to Toulouse .- At a brick-kiln, observe that they burn only faggots of vine-cuttings.

[&]quot;And now of late, for want of other timber, we begin to use fir for building of houses." An Old Thristnewly revived, or the Manner of Planting, Sc. by R. C. 4to. 1612. Black letter. P. 7. † Recherches sur la Houille d'Engrais. Tom. ii. p. 25. † Encyclopédie Methodique. 4to. Marine. Tom. i. part 1. p. 163.

Bag VOL. IV.

Bagnere de Luchon.—For building the new bathing-house erecting here, by the states of Languedoc, they work the lime (burnt from a fine blue hard stone) with gravel instead of sand, of which they have none in the country; and, on examination, I found this gravel to be a true lime-stone one, the same so often met with in Ireland. I could not find that the mortar was the harder or better for this; but, on breaking, rather softer than that of sand. They have here a very effectual method of cementing stone; when squared blocks break, they join them very easily, by applying this cement;—resin, three-sourths; sulphur and wax, one-sourth; powdered stone, of the fort to be joined, enough to give it the right consistence when melted. This holds the stone so firmly together, that the solid part will break rather than at the junction.

NORMANDY.—Carentan to Contances.—They build here the best mud houses I have any where seen; very good ones, of three stories, are thus raised: and considerable offices, with large barns. The earth and straw well kneaded together, are spread, about sour inches thick, on the ground, cut in squares of nine inches, and these tossed from a shovel to the man on the wall, who builds it; it is sinissed, layer by layer, and left for drying, as in Ireland; the layers three seet high, and the thickness of the walls about two seet; they make them projecting about an inch, which they cut off, layer by layer, perfectly smooth; if they had the English way of white-washing, they would look as well as our lath and plaster houses, and be vastly better and warms.

In good houses, the doors and windows are in stone work.

Bernay .- Mud walls to inclose gardens, and for fruit, well built and thatched at

top.

Champagne.—Epernoy.—Monf. Paretclaine's new oak floor, which is the common fashion of France, of short scantlings, in a fort of Mosaic, costs 40 livres, the square toise of fix French feet, including joists and all. They are dove-tailed along the sides, but nailed at the ends, the nails knocked in, and a plug of wood driven in and plained off.

Lime.

Languedoc.—Bagnere de Luchon.—The lime-kilns here, while burning, have a remarkable fmell of burning fulphur, from the quantity of that mineral with which the lime-stone is mixed. They build their kilns oval, swelling in the middle, with a mouth, not quite at the bottom, where they put in the wood: the apper part is covered with stones, in order to keep the lieat in. They are twenty-sour hours burning the lime. When burnt, stop the mouth close, and leave it to cood, which takes three days; after which, they take the lime out. A kiln holds four hundred septiers, which may be supposed the septier of Paris. They carry, with a pair of oxen, but two septiers. Sell it at 415 to 45 the septier. Such a quantity of lime takes six hundred saggets to burn, and a little other wood.

FLANDERS .- Armentieres to Monteaffel .- Heaps are lying in some of the fields, rea-

dy for foreading. It is burnt in the country.

MANNE. - La Fleche to, Le Mans. Lime burning; the price 5 livres the pipe, of two barriques.

Beaument.-Lime-stone plentiful, yet lane to livres the pipe.

Alergen to Nonant. - Lime-stone every where, yet lime 16 livres the tenneaux, of two pipes.

BOUREONNOIS. - Moulins. - Lime 55 f. the poinçon, thirty inches high, and twen-

VIVARA s. - Pradelles .- Lime 9 f. the measure of thirty-two pounds.

Norman and ditches double ditch trees; and or fifty feet around ever defentible, f

more fee thr in them, with and of fuch:

In fencing dom is included in others, a invefted in the fand millions which they hear as connections.

SOLOGNE.from 5 livres

BOURBONN croffing it, in country, thou to fwell into a fprings, or ftr it would be b made across when the fire: twenty, and t every fecond of who fend ther elate, I faw eig a farm of abou fo much in gu in this provind leaft, inflead o the fame time of the contract supplied.

BRESSE.—7

Tenzer.

Fences.

NORMANDY.—Pays de Caux.—The fences here refemble more the double banks and ditches of Ireland than any I have feen: parapet banks are thrown up out of a double ditch, floped; and upon them are planted a hedge, and one or two rows of trees; and the foil is fo rich, that all thrive to fuch a pitch, as to form hedges forty or fifty feet high, and perfectly thick. By means of fome finall inclosures of this fort around every house, every habitation is a redoubt, and would make the country very defensible, for a finall army against a great one.

Font L'Eveque.—Many of the rich pattures here are fo well fenced, that one can no more fee through a fingle hedge, than through a wood; yet there are many willows in them, with only a mixture of thorns and bramble; but they are fo well trained,

and of luch a luxuriant growth, as to be impenetrable to man or beaft.

In fencing little is to be learned in France, yet a confiderable portion of the kingdom is inclosed. In England we have carried that art to a perfection of which the French know little. It is only in a few districts, where gates and stiles are regular; in others, a few bushes put in a gap supply the place. Whenever the French have invested in their agriculture, the sums it ough to attract, at least three or four thousand millions of livres more than in at present, these objects will receive an attention which they have not yet commanded. They are by no means unimportant; and as far as connected with inclosing, in general, are essential to prosperity.

Fifb Ponds.

SOLOGNE.—This province abounds very much with ponds of all fizes, which let at from 5 livres to 12 livres the arpent.

BOURBONNOIS. - Moulins. - Through every part of this province, which I faw in crossing it, in two directions, the number of fish ponds is very contiderable. The country, though in extensive views flat to the eye, is, on a nearer examination, found to swell into a variety of gentle inequalities, which form vallies, with small brooks, forings, or streams, in them, as eligible for a residence, and agreeable to the eye, as it would be beneficial to cultivation, if they knew how to apply them. Mounds are made across these little vales, to form ponds; and there are mills at their heads, when the fireams are confiderable enough. These ponds are from two or three to ten. twenty, and thirty acres, and fome a great deal more. They are all fished regularly every fecond or third year, and the fish fold, at so much a thousand, to the merchants, who fend them, by the Allier, Loire, canal of Briare, and Seine, to Paris. On one elate, I faw eight ponds, that paid 800 livres; on another, four paid 800 livres; and on a farm of about four hundred acres, four ponds paid 1000 livres. Water deceives one fo much in guesting the superficies, that I may be erroneous (for nothing is measured in this province); but I should guess, that land under water paid 20 livres an acre at leaft, inflead of 3 livres, which is the more common not produce of the country; and at the fame time that the proprietor receives this superior benefit, his table is, by terms of the contract with the merchant, who flocks the ponds himfelf, allowed to be amply Supplied.

Bresse.—The ponds of this little province and Dombes, cover fixty-fix leagues square of country, and are found terrible to population, from the effect they have

on the climate. In 1764, ponds in France generally let at 5 livres to 7 livres per-

The management of ponds is vallly better understood in France than it is in England, both as to stocking, adapting the fort of fish to the soil, clearing the ponds, emptying, fishing, &c. &c. In all Catholic countries, fish is of more importance than in-Protestant ones, and this occasions more attention being paid to them.

Leaves.

LANGUEDOC.—Gathering, the end of July, leaves of mulberries, for feeding cattle.

POITOU. - See them gathering elm leaves for cattle, particularly for mules, the first week in September.

Touraine. - Clipping elm trees to feed cows, in September.

Near Clarcy, they gather the vine leaves in September; we faw them spread, inlarge quantities, by the fides of the roads, with many women, girls, and boys, gathering and drying; they are for winter provender for their cows; this custom is general through the country. They make an infusion of these leaves in hot water, by boiling them with some bran; which mixture they give to their cows, in snowy or frosty weather, with straw. Was a cow fed with leaves alone, it would require eight or ten arpents to support a cow the whole winter; they reckon them very beneficial for this useful animal. Leaves are sometimes sold, in which case, such a heap dry as would equal thirty pounds of hay, fells for 20% but all this varies according to the year. An arpent produces feven or eight times that quantity.

ISLE OF FRANCE.—Among the winter provision which Monf. Cretté de Paluel, of Dugny, makes for his sheep, is that of faggots, cut in summer while in full leaf, and housed as soon as dry: these he has found to be of considerable use, and to answer the purpose perfectly well. When given to the sheep they pick off every leaf

carefully. Such a practice well deserves attention in England.

DAUPHINE'.-About Montelimart the leaves of all mulberries are gathered in November for feeding sheep. A gentleman, near the same place, feeds a flock of Spanish and half bred sheep, with faggots cut in summer from full leaved trees.

PROVENCE.—The prefident de la Tour d'Aigues making elm faggots, in September, for his sheep; a common practice: poplar also and oak; indeed all forts are thus applied. Olives are also excellent; one of twelve years growth will thus yield to the value of 12s.; every second year, on good land, more than the expence.

For the better understanding this subject I beg to refer the reader to an excellent and useful memoir on the subject, by Mr. Profesfor Symonds, inserted in the Annals

of Agriculture, vol. i. p. 207. 1

This is one of the economical practices of France, which well deferves imitation in England: not gathering leaves, for I question whether it would answer the expence of labour, but cutting faggots in fummer instead of winter; drying them like hay before binding, and then flacking and thatching for feeding sheep. I made a stack of them in 1789, but the two following winters were so open and mild, that I could not experience the benefit. I shall, however, make other trials on the practice, for L

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^{*} Observ, sur L'Agricult par Mons. Varenne de Fenille, p. 270. † Chanvalon Manuel des Champs. 12mo. p. 363. ‡ See also Mem. de la Soc. Roy. d'Ag. de Paris. 1785. Trimestre d'eté. p. 22.

have not the least doubt of its answering as well here as in France. Leaves are very nourishing, but astringent, and wholesome for sheep, and such stores might be got at easily when the ground is covered with snow, to the great saving of hay. Considering the immensity of leaves that fall to waste, in a woodland country, it is certainly an object that well deserves attention.

Threshing.

Roussillon—Languedoc.—Through all the fouthern parts of this province, they tread out the corn with horses and mules; a man in the centre of the threshing sloor, in the open air, drives them round, and other men supply the sloor, and clear away the straw. In some conversation I had on this method, between Narbonne and Nissau, I was affured that it was far preserable to the use of slails. That twenty-sour mules or horses, and twelve men, would depiqué, as they term it, one hundred and sifty septiers of wheat in a day. That some farms produce two thousand septiers of corn; what would slails do for such a quantity? I examined the wheat, and did not find it more damaged than with slails; but the climate is to be remembered, which makes the grain much harder than any with us. Seeing some stails going also, I demanded the reason, and was told that the master would sometimes have particular parcels of straw threshed so, to get the corn that was left in it, if he suspected too much; at others the labourers desire to do it for themselves, which is sometimes granted.

DAUPHINE'.- Loriol .- But Monf. Faujas de St. Fond has tried threshing the corn all

at once with flails, and finds it much better than with horfes, &c.

Monrejeau to Lann-Maison.—The oats are all mown to the standing corn; one woman follows each scythe, gathers and lays them in gavels, ready to be bound afterwards in sheaves.

Orange to Avignon.—The same method of threshing with horses, see prevails here; and they stack their straw very neatly, plastering at top-with white clay, mixed with

straw and water.

PROVENCE.—La Tour d'Aigues.—Seeing a large quantity of the Prefident's wheat fpread on cloths, for drying in the fun, and inquiring what it meant, I found it was washed, as all is, of which the best bread is made; owing, beyond all doubt, to the mode of threshing, which renders it so foul that this operation is necessary.

CHAP. XXIX .- Of Tillage, and the Implements of Husbandry in France.

NOT an object of the first consequence, but of too much importance to be neglected by a farming traveller. In a climate in which the sun has power to burn up weeds, with only a scratching of the soil, and in a territory where harsh, obstinate, churlish clays are almost unknown, perfection of insplements, and great powers of tillage, are not so necessary as in the less favourable climate and soil of England.

Of the Tillage, and Laying of Lands.

PICARDIE.—Calais.—Lands well and straight ploughed; three horses.

Montreuil.—All turn-wrest ploughs; which, from having two breasts, go alone almost as well as with holding; I saw a man leave his plough to chat with the driver of a load of bark, and the five horses went on and performed their work as well without as with him: the double breast occasions the cutting double work. The man

while I held it for a bout, told me that his master expected him to plough 30 measures thrice in the summer.

Bernay. A pair of horses.

Abbeville. - Very badly, with four affes or two horses. Feed their affes with hay and oats.

Piquigny. - Women ploughing with a pair of horses.

PAYS DE BEAUCE.- Toury. Do not give their first stirring to their fallows until

May. Plough well, thraight, and clean.

Sologne.—La Ferté.—Plough their poor fands all on three feet ridges; and affert that without them they should get no corn, as they preserve the fand from plastering in rains: this is an odd idea, as plastering such sharp fand is usually a means of improvement; but showers here certainly fall with much greater violence than with us; their crops, however, are so beggarly as to give no weight to their opinions. Their teams of horses are kept out all the year, as they have the pasturage of the landlerd's woods for them. What a barbarous system! Plough an arpent a day with three. Plough also with six oxen, and this in sand.

To La Notte Bouvron. - Plough with eight bullocks, and on fand! Buck wheat is given before winter, mixed with oats; if alone, before it has had a fweat, it gives the

cholic; but afterwards, alone fafely.

Nonan le Fusilier.—For two years past, chasse cut at the post, of rye straw, mixed with buckwheat, for horses, and found excellent: the scarcity of forage alone drove them to this useful experiment.

La Logo. - Through all Sologne the land is ploughed on to the two-bout ridge of

three feet, and they never ftir it in any other way.

Salbris .- Plough their fandy gravels with fix to eight oxen, that are pretty good,

felling for fix or feven louis each.

Berry.—Ver on. — Tillage all done with oven, harneffed by the horns; a pair draw a plough; fome are not bigger than our Alderney cows; the furrow about four inches deep, but hardly to be called a furrow, fo irregularly and ill cut. They are now ploughing up out stubbles for wheat; an Englishman can hardly conceive what work they make; they give four of these wretched scratchings for every crop.

NORMANDIE. - Argentan. - Wretched ploughs drawn by four oxen.

LIMOUSIN .- Limoges. - Plough throughout the province with oxen or cows, harnefied by the horns.

Quercy.—Pellecoy.—Walked from the road to a peafant at plough with two cows, about as big as Alderneys; it is not possible for an English farmer to conceive how badly; tret ches three and a half or four inches broad, and two deep, were feratched parallel to each other, and the earth driven aside by two mould boards, some one way, some another; no coulter to the plough; they do about an English rood a day. A shim, where there are no stones, and a Kentish nidget, where there are, would do the work much more effectually, and ten times as quickly. But their burning sun destroys weeds better than such tillage. Their horing is excellent and effective, and to this their crops are more owing than to their ploughing.

Cauffade. — The lands ploughed as straight as in Suffalk; all by oxen or cows. I.Anoue Doc. — Nontauban. — Plough with oxen, without either reins or driver.

Toulouje to St. Lyce. — The ploughs better, the mould boards being larger. The fields are thrown into stetches or flat lands. Ploughs are ox-hoeing the vines, each ox walking in an interval with a row between them, and yoked with a sliding yoke, to vary the distance

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Pia.— Land mules in the left.

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from ox to ox, and baskets at their mouths to prevent their biting the vines. The rows at five feet, and the plants at two.

Bangeres de Luchon.—They ox-hoe the rows of their maize. All oxen yoked by the

Roussillon.—Bellegard to Perpigan.—Plough with mules yoked; also with affes in the fame way. Earth-boards of the ploughs are to the left.

Pia.—Day's work of a man, his plough and team, 3 livres.

LANGUEDOC. - Narbonne. - Of many ploughs now going (Ju'y) most are drawn by mules in yokes; the plough beam fastened to the centre of the yoke; earth-board to the left. They plough well.

Pezenas to Montpellier.—The oxen all yoked by the horns. Ploughing olive grounds with one horse; the plough of an odd construction, the beam dividing and forming.

. shafts for the horse.

BEARN.—Pau to Moncins and Navarcins.—All this country is ploughed with oxen that are good, and in good order.

Guienne.—Agen to Aiguillon.—Plough with very fine cream-coloured oxen, a pair

to a plough. All draw by their horns.

Tonneins —A pair of very fine oxen plough a journal a day; that measure contains 33,750 square feet, and is to the English acre as 33 to 38. The plough beams all fasten. to the yokes.

To La Motte Landron.—They are now (August) ploughing for jarouche and forage, (by the laft is meant oats for foiling), and are very attentive in the ordering and finifhing their lands, and covering the feed; breaking the clods with a wooden beetle and rake, fo that the high ridges are brought down in fuch a manner as to admit the fcythe, and at the fame time the furrows are kept open.

Barface.—They are now ox-hoeing their vines quite clean; and fee one piece of ofiers ox-hoed.

Porrou.—A pair of oxen without either driver or reins.

TOURAINE. - Montbazon. - Horse ploughs; saddles on the horses with a bar like a curricle, one from faddle to faddle, to which the beam of the plough attaches. A bad plan, as by this means the horse does not draw from his shoulders, where his strength and weight lie.

Sologne. Chambord.—The poor fands of this country are laid on the three feet ridge of two-houts, and rye and buckwheat fown on them; the furrows are as wide as the

ridges, and yield notning but weeds.

La Chapelle La Reine. - I lough with two horfes, and no driver, yet the price per ar-

pent is 5 livres, one hundred perch twenty-two feet.

ISLE OF FRANCE.—Alcllor.—Plough into broad flat lands, and very firaight. Many

ploughs with three horfes, one before a pair: no driver.

Linecourt .- In the general arrangement of their farms, they reckon three heries to a plough, though they never use more than two at a time; and a plough to seventy-five arpetits (one and a quarter acre), twenty-five of which are fallow; and a common calculation here is 1500 livres rent per plough, which makes 20 livres per arpent. They never used oxen until the Duke of Liancourt introduced them from England.

Paris to Villers Coterets.—The whole way the lands are ploughed quite flat, with a turn-wrest wheel-plough, and much of the wheat is overslowed, for want of surrows to

carry off the water from the late rains.

PICARDIE.—La Fere.—Four horfes in the ploughs, and no driver.

St. Quentin to Cambray.—Thirty-five horses to a farm of eight hundred septiers; and twenty horses on one of four hundred. The latter proportion is seventeen on four hundred.

dred English acres.

FLANDERS.—St. Amand.—This feafon (November 1, 1787) the wheat here, owing to the excellive rains, is put in as badly as possible. The lowest and wettest fields are perfectly flat, and half of them, in parts, overslowed. Furrows are drawn, as marks for digging, which is doing, through all the country, with a narrow spade of five inches wide, and eight long; these surrows are from fix to eight yards assurder, but done

poorly, miferably crooked, and the whole unfightly.

Lille.—There is a minutia of labour and attention given to land in this country, which must, in the nature of things, result from that over-population, which is found every where in France on small properties. I saw many men and women hoeing up the land with great mattock-hoes, almost a foot square, with long handles; by which they are lifted high, that in the fall they may cut four or five inches deep. They work by lines that mark out beds, five or fix feet broad, along which other men dig out trenches, a full spit deep, spreading the earth over the beds. Wheat feed is then sown, and covered by a man's drawing a wooden harrow over it: another follows with a hoe to cut clods, and level inequalities. I calculated in my mind what this would cost me in Suffolk, and I made it amount to 31. 10s. per English acre. Such operose methods are not in practice here, because the labour which comes to market is cheap, fince such labour, like every thing else in Flanders, is what is commonly called dear: it springs alone from the population that is attached to the possession of land in property; and is, relative to any other country, a fystem of trifling; a waste of labour not greatly better than picking straws. Perhaps it is owing to this over-population of the fields, that Flanders, with the richest soil in Europe, cannot feed her own towns, but is sorced to import large quantities of wheat from Artois and Picardie, where large farms enable those provinces to fpare to the wants of their more subdivided neighbour.

About four or five miles from Lille begins another method of laying their lands; it is that of ploughing them up in very broad high arched beds, of all breadths from four rods to ten or twelve. When inclosures are small, a whole one is formed into but one land; and in larger fields, there is a drain left at every parting furrow, which is either planted with a row of alders or willows, or dug into a trench and laid to grass. In a land ten or twelve rod wide, the centres may rife four or five feet higher than the bottoms of the furrows; the flopes on each fide very gentle and regular; and fo equal, that all water is effectually drained off. I discoursed with some farmers on this method, stating objections and hearing their answers. They insist that no other method of laying land dry is fo effective, cheap, durable, or commodious. That all the methods I mentioned are known and practifed in some part or other of Flanders, but that all the best husbandmen have one opinion, are united in thinking this mode superior to all others. That planting alders or willows (which are always kept low by conftant cuttings), or having grafs in the furrows, are not necessary parts of the system, and that the furrows, in a few years after throwing up the lands, are as good as the rest of the field. The neatness and regularity with which the system is executed, is extraordinary; the borders, headlands, and fides of the fields, are fo dug away, that a fmall one has the form of a teather-bed, the feathers of which are driven towards the middle. I never faw this fyllem fo well executed as here, though I have known it copied in England; not in the highlands of many of our counties, which are on comparison a barbarous method, but in the practice of a few individuals who had feen the effect in Flanders.

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To Diep BRIE, fifteen hor five acres

CHAMP VOL. Armentieres.—Passing this town, meet with another exertion of industry, that deserves attention. Many stubbles were ploughed into beds eight or ten feet wide, and the furrows digging out, and the earth spreading on the beds. I supposed this was for wheat, but on inquiry found that these sields were intended for beans. They leave the land, thus prepared, till March, and then plant without further tillage. As spring tillage is thus avoided on wet land, the system must be admitted to be excellent.

Mont Caffel to Berg.—The lands not raifed fo high as those above described, nor with equal skill or attention, and this wet season (November) shews the consequence of it; they cannot get on to their lands to sow wheat, but most of the high lands are sown,

and fome of them green.

ARTOIS.—Lillers to Bethune.—The lands broad and arched; but gently. From Ardres to Bethune, all the way, the greatest attention to plough the land the moment

the corn is carried, yet much is now uncut and ripe.

To Arras.—They are now (August 8,) ploughing the stubbles of such corn as is carried, with one horse, that walks, not in the surrow, but on the unploughed land, by the side of it: the plough beam very short, with a foot; no coulter; a well-curved breast and throat; but too wide in the heel: stir shallow, and do not make good work; do about a measure a day.

NORMANDY.—Rouen.—All the harrowing is done in this country by men leading many horses. I saw one man leading seven horses, each drawing a harrow: the horses are tied one behind another, obliquely, so as to be out of danger of the harrows.

BRETAGNE. - Rennes. - Plough with four horses and a driver; or two horses and

two oxen.

Vannes.—The common plough team, two oxen; always harneffed by the horns, and a little horse, a mere poney, before them; if no horse, the oxen are led by a woman. They use aukward, ill made, but light, wheel-ploughs.

Auvergnac.—The farmers (metayers) have here the Effex custom of digging away the borders and margins of all arable fields, and carrying them on to the land, which

they practife very exactly, as it is done in that county.

Anjou.—Migniame.—They plough deeper, in common, than ever I faw in any part of either England or France; eight or nine, and even ten inches deep; using fix or eight good oxen of the Poiton breed; but it is done, in one respect, badly,—their depth obliges them to carry a surrow a foot wide, yet their share is not fix inches; and they do every thing on four-seet ridge-work. The great strength of the team is most wanted for the roots of the fern, which are now lying about the land in heaps.

La Fleche to Le Mans. - They are now ploughing fand land, very flowly, with four

bullocks and two horfes. Preposterous!

NORMANDY.—Beaumont.—Two bullocks and two horses, to draw thirty bushels of dung.

To Alençon. - Plough with four or fix bullocks, or horfes, and a driver.

Bernay.—Wheel-ploughs; with two hortes, and no driver. The rich loams here are on broad lands, very well arched.

Toftes.—Wheel-ploughs; three horfes, and no driver. To Dieppe.—Ditto; well ploughed, flat and deep.

BRIK.—Neuf Moutier.—Monil. Gibert, a confiderable farmer and proprietor, keeps fifteen horfes for three hundred arpents of rich loamy clay (three hundred and feventy five acres English).

CHAMPAGNE. - Chalons to Ove. - Plough with one horfe.

VOL. IV.

To St. Menebould.—Plough with four horfes, without a driver; turn-wrest ploughs.

LORRAINE.—Mars la Tour to Metz.—Fallows dunged, after ploughing with six horses (July).

Luneville to Blamont.—Broad lands, and fome arched, but no water-cuts, confequently the crops much damaged, whenever rain falls. Plough with four, fix, and eight horses, cows, and oxen; all mixed fometimes. I have seen women holding the plough, and a boy driving: wheels, but not turn-wrest.

Alsace.—Saverne to Wilteim.—Here is a remarkable allom, of both waggons and

ploughs being driven by postillions.

To Strafbourg.—The lands broad and arched, as in Flanders.

To Schelestat .- The same lands on the flat rich vale.

Colmar to Isinheim —Oxen here improve much on the preceding country: they are harneffed by the horns, drawing fingly in lines, and also mixed with horses.

To Béfort.—Plough with a pair of oxen, without line or driver. Arched broad ands.

Bourgoone. - Dijon .- Plough with fix horfes.

Bourbon Lancy.—Plough with fix oxen, that draw by the horns. A level country; a fandy gravel.

BourBonnois.—Chavannes.—All the arable thrown into one bout-ridges, about fixteen inches broad.

AUVERGNE. - Riom to Clermont. - Plough with a pair of oxen.

Clerement to Iffoire. - Ploughing with oxen only; some of them good; all draw by the horns.

Fix to Le Puy.—Miferable ploughing; the plough has one long handle; and the man holds a long light pole in the other hand for a goad: a pair of little oxen.

DAUPHINE'.—Montélimart.—Plough with two mules.

There is no part of England where lands are laid fo neatly as in Flanders; but the French have no other province that partakes of this perfection; Alface is in a fimilar fysicm, but not so well executed. In general the tillage of the kin, dom is most miferably performed; and many of the provinces are, in this respect, so backward, that

to English eyes they appear to be pitiably conducted.

The principal question that arises upon tillage is the comparative advantage of using horses or oxen. Both have had their advocates. The principal opponents to oxen were the *economiftes*, that fauciful feet, of very worthy and ingenious men, who, from their chambers at Paris and Verfailles, offered opinions upon every part of the farmer's business. They divided the arable lands of France into those managed in the great and little culture: in the former the tillage done with horf's, and in the latter, with oxen; and as Flanders, Picardy, Normandy, &c. where horses were in use, being also let at money rent, those provinces were necellarily more at their eafe than Sologne, Berry, Limoufin, and others in the hands of metayers. This comparison is often made in the writings of the aconomifles, and abundantly more firefs had on the nature of the team than it deserves; they gave many calculations to show, that horses were more advantageous, but all founded on falfe data; for they a lowed only two horfes to a pleugh, but four or fix oxen torgetting that in Guienne, Quercy, part of Languedoc, &c. a pair of oxen plough as well as any pair of horfes; an omiffion this the more extraordinary, because those provinces are among the best cultivated in France; the diffrict of the Garoano is like a garden, and the oxen large, vigorous, beautiful, and in fine order, the very contrary of the miferable half flarved beafts, described by the Marquis do comparison that oxen as will plough of the comp

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is clearly in working th walk as ho too flowly, owing to no perfuaded, great activit leaps that no great mufeu Accuston tainly as pra Afia. The been long a Tartars, of from Agra t faddle, brid at Surat, in to avoid bei the caravan pounds | : a count, of gr common loa coach, is dra maintain the

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^{*} Istrandt Istompoje that Emand le Blanc's
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tt Grozier's

Marquis de Mirabeau, Monf. Du Pont, Du Quesnay, and other accommisses. The comparison has been made in England with great accuracy; and the opinion now is, that oxen are the most beneficial and the most profitable, and that a pair of good oxen will plough as much in a day as a pair of good horses. The other accommical points

of the comparison are all in favour of oxen.

But though the superiority, both in saving to the sarmer, and in national benefit, is clearly in savour of oxen, yet there want improvements to be made in training and working them. Some step well, and move with as much freedom and activity on a walk as horses, but this is not the case with the generality; they are trained to go too slowly, and demand, for light work, more hours than horses. This is certainly owing to negligence and idleness of workmen and farming servants, for I am well persuaded, from circumstances I have remarked in them, that they are capable of great activity and quick motion. I have had them of a large size, which have taken leaps that no horse in the world would attempt, a proof not of activity only, but of

great muscular strength.

Accustoming them to more speed, even to a trot of five or fix miles an hour, is certainly as practicable, in the cool climates of Europe, as it can be in the burning ones of Afia. The fact that they draw coaches at that rate, in the East Indies, seems to have been long afcertained. The Targuzinian Tartars ride on their oxen *: the Nogayan Tartars, of Koundour, do the fame t: Mandelsloe t rode on an ox part of the way from Agra to Delhi, that carried him feven leagues in four hours: in Kachemire they faddle, bridle, shoe, and ride them as fast as horses §; they also draw their coaches: at Surat, in riding them, they take care their horns are not more than one foot long, to avoid being struck when slies bite; they never shoe them but in rough places; in the caravan from that city, they carry three hundred to three hundred and fifty pounds | : a camel carries nine hundred to one thousand pounds ¶: but in a late account, of great authenticity, five hundred and fix hundred pounds is mentioned as the common load of a camel in croffing the Arabian defarts **: the hackrees, a fort of coach, is drawn in Hindostan by oxen; which, when well trained and managed, will maintain their rate against horses at full trot; those of Guzerat and Cambray are as large as Lincoln beafts, and white † : the oxen that are rode in Formota, go as well and as expeditiously as the best horses, by being trained young !!: the Hottentots train oxen to gallop and even run down an elk §§.

If such quickness of movement could be given to the oxen of France and England, it would be a very considerable object, for it would get over the principal objection to them, and would at the same time render them applicable to a great variety of uses,

to which at prefent they are never put.

Of the Implements of Hufbandry.

PICARDIE.—The harrow teeth of wood, all the way from Calais to Clermont. Turn-wrest ploughs, and bad.

[#] Israndt Ides. Harris' Voyages. vol. ii. p. 036. † Russia; an Account of all the Nations which compose that Emtire, 8vo. 1780. vol. ii p. 85. † Harris, vol. i. p. 764. † Ib. p. 814. and te Blanc's Travels, p. 54. | Harris, vol. i. p. 827. ¶ Ib. vol. ii. p. 883.

^{**} Phil. Trans. vol. 1xxxi part. 2. p 1;6. †† Grose's syage to the East Indies, p 24. ‡‡ Grozier's General Defeription of China, 8vo. vol. i. p. 226.

^{\$\$} Sparman's Care of Good Hope, 4to, vol. i. p. 230.

Sologne. The ploughs have all a broad double finned share, and double mould-

boards, with wheels; the whole ill constructed.

Berry.—The plough very ill made; it has two scraps of something like mould-boards, and a long ground-reit, at the end of which is an iron share, four inches wide, something like the shim which they use in Kent for earthing up beans: a hole for a coulter, but I saw none used. Nothing can be worse than its work. They have also turn-wrest ploughs, something like those of Kent, but bad. Beyond Argenton, the beam of the plough fastens to the yoke of the oxen; the plough has a chissel-rest and point, and no other mould-board than two small sticks, stuck in it, with a circularly bent one behind; these sticks answered the purpose of two mould-boards, but verybadly; the handles so low, that the body of the ploughman is in a bent position to hold them.

LIMOUSIN.—The ploughs which I faw near St. George, &c. have one mould-board on the left fide; the share long, and one and a half inch broad; the beam reaches to the

yoke, and confequently faves traices. They plough better than in La Marche.

QUERCY.—The fame long beams to ploughs that reach to the yoke; have two very bad mould-boards; the share long and narrow, with no coulter; but the land excefsively stony.

Languegoc. -- Montauban to Touloufe. -- The plough much better than many I have feen in France; it has a broad coulter, and a fhort noted share; one mouid-board, and

that to the left; the plough beam, like many others, fixes to the ox-yoke.

To Noc.—Meet waggons for the first time; the wheels shod with wood, that is, wood upon wood. The oxen all cloathed with linen against the slies, one tape under the tail and another round the neck. The price of these waggons new is 60 livres (21.12s. 6d.); they carry, with a pair of oxen, two casks of wine, containing four barriques, which is twenty quintals, or about a ton English. Some pairs of oxen will draw forty quintals.

GUIENNE .-- Tonneins. -- The ploughs have very long hollow or fluted mould-boards

for lifting the furrow, in order to make tharp high two-bout ridges.

Angoumois.—Barbeficux.—Wheel-ploughs.

ISLE DE FRANCE.—Melun.—Large heavy wheel-ploughs, with breafts as wide and thick m the throat, as the heel is broad; mult go very heavy for the horfes.

Commerle. - Wheel-ploughs drawn by a pair of horfes.

Dugny.—One of the best implements I saw in France, was the chast-cutter of Mons. Crette de Paleuel; it consisted of two cylinders, with edges that worked into the vacancies of each outer, and, sucking in the straw delivered very rapidly, cut it into coarse chast; one man sed the machine, by spreading the straw on an inclined plane; and a boy drove a single horse, which turned the machine. A tolerable mechanic, improving on the idea, would produce a much more powerful cutter than any yet invented.

FLANDERS. - Lille. - Many waggons loaded with chalk flones, &c. with the principal part of the load laid on the hind wheels, and a very fmall portion on the fore ones; a

good fenfe that reproaches our barbarians in England.

ARTOIS.—The floort feythe which they use through this province, and all over Flanders, is one of the most infestil implements that can be seen: they call it the pique: it is much like the representation given by Mr. Walker in the Annals of Agriculture, only the handle erre is much shorter; a man cuts an arpent a day in general with it, and sometimes more. In cuts and rolls into bottes an arpent of vetches; (called here, mixed with cais, dravin;) and he cuts an arpent of any fort of white corn, others following to bind with straw bands made at home. This is a most economical system. The sent handle of the pique is made to rest against the elbow; he holds it with the right line only, or rether

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low with furrous, w turnight the rather hand and arm; and in his left he has a flick with a hook at the end of it, with which he draws or holds the corn in the right position to receive the stroke. They use scythes and cradles also for some works.

St. Omer.—That the pique is much easier to work than a scythe, appears from women and even girls cutting stout crops of tares with it. They give 45 st. per measure of oats for cutting with the pique, and a man does three-fourths per day.

Normandle.—Harfleur.—I noticed here, what I may have often paffed, perhaps, without feeing it, a pierced roller behind and before a cart, which turns in the frame, or in the ladders, by which means a load is corded with a finall handspike, almost in a moment; I have known something like it in the ladders of carts in England, but forget where; here they let down a cart behind by raising the shafts in the air, set it against a cask, and wind the cask on to the cart, by means of the fore-roller, casily and commodiously.

Avranches.—Sea fand is drawn in this country in carts, by a horfe in the shafts, and another to lead, with two or three oxen between, and all in a line. About Carentan they attach the rope by which they draw, to the yokes of the oxen, consequently the horse draws them down to the line of his own draught; and their rope to the top of the pole between the two thillers, (when they are two,) consequently all draw the thill horses down. A team of five, thus harnessed, does not draw more than from twenty to twenty-four bushels of sea fand: the horses are, however, poor small things; and no wonder, from the number of miserable garran (poney) stallious that insest every stable you enter. The oxen are better, but not large.

BRETAGNE. - Varades. - They are now working their ridges, of three and four feet across, with a great timber triangular machine, drawn by oxen, to answer the treble purposes of harrowing, rolling, and levelling.

ISLE OF PRANCE.—BRIE.—Nangis.—Wheel-ploughs, and very good, except fingly the breadth, which is fixteen or eighteen inches, and in narrow lands lofes a fourth; it only wants to be taken in narrower, and left with the share projecting more from the threat.

CHAMPAONE.—Marcuil.—Bad turn-wrest ploughs; but have the Bric one, which they preser when there are root weeds to cut.

Rheims.—Very light ploughs, with a broad share, and one earth-broad, but ill set on; it has wheels on the beam which is little more than a stick. Women are ploughing.

To Chalons.—Many rollers every where; an implement very uncommon in France. St. Menchould to Verdun.—Wheel ploughs that are not turn-wrests, with well turned mould-boards. This is among the best ploughs I have seen in France.

LORRAINE. -- Mars-ia-Tour to Metz. -- Broad share and good, but too wide at the heel; wheels.

Pont-à Mousson to Nancy.—Here, for the first time, I met with waggons of a peculiar structure, the fore wheels are within four inches as high as the hind ones, and are high enough to enable one horse, for none are drawn by more, to convey eight hundred pounds, to one thousand pounds. Ploughs so wide at the heel that they are drawn by eight horses.

Alsacher. All deough the part of Alface which I have feen, they use ploughs with low where, the share round and broad, and as wide on the land side as on that of the furror, which is very erroneous, for they are not turn-wrests, but with fixed breads, turning the furrow to the left.

Bourbonnois. - Moulins. - The common plough a turn-wrest one; but they have

another for stirring, called arcon, without an earth-board.

AUVERGNE. - Iffire. - The plough only opens a flight furrow, into which the earth falls again, and buries nothing, and without a hot fun would kill nothing: the share a chiffel point, one inch wide at one end, and three inches at the other end for stoney land, or for that which is free, turning it occasionally end for end. An earth-board on each

fide, but not more than four inches high.

Upon the implements in general, I may observe that they will in all countries be proportioned to the wealth of the farmers. There is nothing in the kingdom comparable to those which we see in every part of England, where the implements of husbandry are carried to a perfection of which one fees nothing in any other country that I have viewed. The right form and powers of all inftruments used in agriculture, depending very much on the application of mechanical principles, were proper objects for the attention of those scientific men that compose academies; I do not know, however, that they have done any thing in this respect in agriculture, though such great exertions have been made in manufactures and fhip building. At one period the ingenuity of mechanical genius in France was employed on agricultural tools; and then, as an ill flar would govern, nothing was thought of but drill-ploughs and herfe-hoes. Fortunately all invented were abfolutely good for nothing, which threw fuch a difcouragement on the practice, that the folly was but of thort duration; had they been better it would have lasted longer. and would have done fo much the more mifchief; for the drill husbandry, at its best efforts, is fitter to amufe very ingenious gentlemen, who aim at great products without attending to expences, than to become the fleady flaple practice of a kingdom, in the hands of men who cannot eafily understand refinements; and if they could understand, could much lefs afford them. Adopting beneficial courses of crops, that will allow a great increase of cattle and sheep; draining, irrigating, manuring; such objects are applicable to common farmers, little and great; but the refinement of drillin., applicable but to certain crops and certain foils, is not adapted to the mass of husbandmen, by whose anore plain exertions mankind must be content to be fed.

CHAP. XXIX.—Of Manures and Manuring in France.

PICARDIE. - THROUGHOUT this province, most of the way from Calais to Clermont, the dung is now (May) carried out and ploughed in upon the fallows; it is in a long flrawy flate, and not one-fifth part rotten; nor half of it ploughed in.

PAYS DE BEAUCE.—Toury .-- Many pits of white marl in this rich plain of Beauce, quite to Orleans; the fine loam four or five feet deep on it. They fpread it on their

lai.ds, but the quantity very finall, nor did I fee any figns of old pits.

SOLOGNE.—La Motte Beuvron.—The rye-stubbles are (May) collected in heaps on the land, having been left fo all winter, to prepare it for rotting for manure. Surely they might find a better way of doing it; houfing their fleep, as they do, at noon as well as night.

Limousin.—Ufarch,—Collect leaves to make manure with.

Languages. - Nifnes to Quiffac. - In cultivating wastes, or old neglected pieces, they pare and burn; also collect turfs and clods in heaps, on faggots of box-wood, which

they burn.

Lann-Maifon to Bugnere de Bigorre. - Cut from their wastes much fern, which they spread on their cultivated lands, and, setting sire to it, find the ashes equal to a dunging. They also cart much to their stat les and tarm-yards, to make dung with.

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ISLE DE F tion from ! a der; for the larly, do the

Soissono peat for man per measure, pent. The ieen, refemb for I faw fev of England. country, now GASCOIGNE.—St. Palais to Anspan.—Pass three or four lime-kilns, which my guide affures me are employed in burning for manure, to improve the wastes that abound so much in this country; and I saw several heaps near houses, without any signs of build-

ing going forward.

A general practice through these mountains, and almost to Bayonne, is that of manuring for raves, with the ashes of burnt straw. I observed several fields quite black; and, demanding what it was, my guide told me of this common practice here; afterwards I saw them strewing straw thickly over land, part of which had been already burnt on. They do this on a wheat-stubble; but not thinking that stubble enough is left, they add much wheat straw, and setting fire to it, burn the weeds as well as the straw, and clean as well as manure the land. With such quantities of fern on all their extensive wastes, I asked why they did not burn that, and keep their straw? The reply was, that fern makes much better dung than straw, so they burn the straw in preference. As soon as the operation is over, they plough the land, and harrow it in rave feed. One large field, thus treated, I saw ploughing for that crop. They both hoe and hand-weed the raves, and have them sometimes very large; many as big as a man's head. Use them for oxen.

Fleurange to Leitoure. - Chop their stubbles exactly as in Suffolk, driving it on with

their foot: they gather it for making manure.

Touraine.—St. Maure.—Here we found a greater exertion in husbandry than is commonly found in France, that of marling. We saw several large heaps of white marl, and at one of them four or five carts at work, each with three horses. It is found almost every where under the country, at the depth of three to five seet; the soil on which they lay it, is a good loam; adhesive, but not clay. They draw it up by buckets, which is a singular practice for such slight depths. The marl is in some pits white, in others yellowish, which is reckoned the best; it is very fost and fat to the touch. They spread twelve cart loads per arpent, of one hundred chaine, each twenty sive feet square, fixty two thousand, sive hundred feet, or more than an acre and half; and it halfs good about twenty-sour years. The landlords, on leases of nine years, pay the digging, and the tenants the carting. Of the yellowish fort they do not spread quite so much as the white. The same account was given at Montbazon; they spread it on the sallows, after two ploughings; and having ploughed in the marl, manure it with story, and sow wheat. Make composts also of marl and dung mixed.

Orleans to Petiviers.—Under the greater part of this country there is a bed of imperfect marl, which is over the calcareous stone of which the roads are made. The farmers spread this marl on their lands, at the rate of ten tomberaux per arpent, which last twelve years; some, better than the rest, has been known to last thirty years.

ISLE DE FRANCE.—Liancourt.—Within two leagues of Liancourt, there is a navigation from laris, but no idea, in any part of the country, of bringing manures; no wonder; for they carry flour thither by land carriage; even the millers, who fend it regu-

larly, do the fame.

Soissonois.—La Fere.—A vast excavation made in a hill, by digging and burning peat for manure: great heaps of the ashes now here. The price the farmer goes is 22 f. per measure, that holds fixty pounds of wheat, fifteen of which they spread upon an arpent. The effect is very great on all kinds of plants. This peat is unlike any I have seen, resembling an imperfect coal; and she being found, not on a plain, but on hills, for I say several, and all equally on elevations, distinguish it remarkably from the peats of England. The mine of this hill is nearly exhausted, as the common red loam of the country, now appears nearly all around it.

FLANDERS.

FLANDERS.—Lille.—See many loads of urine and night-foil carrying into the country, by the farmers, for manuring their lands with. It is loaded in calks: each waggon carries ten tenneaux of about half an hogshead English. They lay from fixteen to twenty upon a quartier of land, at the expence of 7 livres: use it for cole-feed, wheat, flax,

&c. and find it equally excellent for all forts of crops.

Armontieres to Monteaffel.—Holes are dug in the fides and corners of many fields, for receiving the urine and night-foil, which is brought from every town, in calks, and kept against the feafon when it is wanted. Some have small roofs built over, to exclude the fun, wind, and rain; and others covered with straw. The most correct and never-ceasing attention with which they procure and use this manure, deserves the greatest commendation.

To Berg.—A good deal of land chalked as well as dunged, and ready for wheat. The chalk is in large hard lumps, but broken and forcad most curiously; more evenly than ever I beheld any thing similar in England; where the rough and unequal manner in which marl is rather tumbled than spread over the greened, as a reproach even to our best farmers, who permit those labourers, whose families are supported by poorrates, to execute their work in that manner, to earn ten shillings a week instead of eight.

NORMANDIE.—Throughout the part of this province which I have feen, they gather their wheat flubbles, and even bundle it in fleaves: they chop it with an inflrument fomething like a crooked feythe, fixed at the end of a handle of fix or feven feet long;

but do it much flower than in England, with a common fcythe.

Isigny.—Here, for the first time in France, I saw composts of dung and earth ade.

Carentan.— Use sea-sand for manuring their pastures, spreading twenty loads per vergé, each load twelve to sixteen English bushels. The vergé equals ninety-six English perches. Mix it also with dung.

To Coutances .- Manuring with fea-fand continues hither.

Avranches.—And hither they have banked out half the river, which is a small arm of the sea, in order to build a bridge; and the countrymen are digging out the blue seamed, and carrying it away to considerable distances.

Bretagne.—Dol to Combourg.—Wheat-stubbles gathered carefully; and a great

deal of fern cut now (September 1.) and in heaps.

Hedé.—From entering Bretagne, paring and burning every where practifed, but the heaps too large and too much burnt.

Rennes. - The farmers and gardeners buy the town dung, at 4 livres the load.

Belle-Isle to Morlaix.—The rough land of this country is reck-oned to find fuel and manure: one of the reasons for almost the whole of it being in such a rough savage state. They have an execrable custom, well adapted to perpetuate their deserts, that of burning parts for ashes, to carry to their good land.

Morlain. - Heaps of shell fand on lays, ready to spread for sowing wheat: the same

husbandry is practifed on our opposite coast, in Cornwall.

To Breft. — A most excellent custom of going round all the inclosures with an instrument between a scythe and a wood hook, for cutting u₁ all grass, weeds, and rubbish, on the banks and in the ditches, leaving them in 'aps, and then carting them away for making litter and dung; a practice that cannot 'about commended.

Chateaulin.—Paring and burning, the origin of all the culture there is in Bretagne; and the ruin of the province at the same time. They pare two and a half and three

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ISLE DE I farmers, at i water in a po

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inches deep; and having exhausted the ashes by three or four crops, seave it to weeds for twenty years before it is fit to burn as ain.

Quimperlay.—There is here a most singular husbandry, of which I never saw any traces before. It is to pare the rough land, and not to burn, put to pile it up in heaps regularly square, of about twenty-sive or thirty cubical yards in each, and about four of them to an acre; they are squared up very neatly, and then the field is left for some time, to cover itself with a new herbage, which is free from surze and broom, but not quite so from fern; after a time, the heaps being rotten, they are carted and spread, and the land cultivated. Sometimes they cultivate the land before they are spread, as I saw some in pieces of buckwheat. Paring and burning is also practifed. This method is interior to burning; it does not equally destroy grubs, vera in, and weeds; and the double carting is a considerable expence.

Vannes.—These heaps formed in the spring, and many will be spread this year for rye. Here they consist of three-sourths or seven-eighths of turs, pared off from every hole and corner from commons and bad fields, and carried to the good ones; and if this excerable practice is of any antiquity, it will account for the barren and wretched state of the country. Every poor field is made good for nothing, and the good one cropped, in consequence, till it is almost as bad. These heaps continue about Vannes in amazing quantities.

Anjou.—Migniame.—The common manuring, ten loads of dung, each three thou-fand pounds; but not more than four of Angers dung, night-foil, aftes, &c.

MAINE.—Le Mans.—Marl is here used; one hundred pipes are laid on a journal.

Normandle.—Alençon.—Fallows all dunged, with square lumps of dung, quite black, as if cast in a mould; and very thinly, not more than six or seven loads an acre.

Lessimale.—Marl employed here; or rather a hardish imperfect chalk-stone; drawn up in buckets; it lasts twenty years. Stubbles cut close and botted.

Bernay to Elbouf .- Marl.

Ronen.—Monf. Scannegatty, Professor of Physics in the Royal Society of Agriculture here, having observed, that, in calcining gypsum, it was apt, for various ses, to be unequally burnt, part being partially reduced to lime, and the rest not sufficiently calcined, invented a surnace for the more equal distribution of the heat; a vault pierced for the suel, with a long channel beneath, for conveying air, and a door to the month of the surnace; at top, various holes by way of chimnies, for the smoke to issue, and which he closes alternately. He knows when the gypsum is sufficiently calcined, by applying a cold bright iron to these holes; it is insufficiently done while any humidity arises.

La Roche Guyon.-Elm leaves are found to make good dung, but not oak ones; the

latter take three years to rot fufficiently.

ISLE DE FRANCE.—Nangis.—There are afrimen, who take marling to do for the farmers, at 18 livres per arpent (to English acre as 32 to 38). Mond. de Guerchy, after water in a pond, nine crops of oats, and all good.

To Meaux.—Long dung spread and spreading now (July 2), for wheat next year.

New Moutier.—Manure their rich clays with the white must found under them; which has the appearance of confolidated paste. They fallow for wheat, and manure the fallows in June, with long dung almost in the state of straw; a method they contend warmly for; thinking that a greater degree of putrefaction would be loss of quantity and virtue. But there is a circumstance which seems in fact much to condemn this method; it is, that while the wheat crops are to be rauked among the siness in France, and would indeed make a capital sigure in England, the oats and barley are wretched, in-

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deed (foil confidered) below contempt. Does not this feem to prove, that the exposition of the manure, through the year of fallow, to the fun, exhaults it to the amount of the benefit which one crop would receive from it, and that the wheat has it at fecond hand,

and the spring corn at the third?

ALSACE. - Strafbourg. - Gypfum used as a manure for clover with success; does best on clayey lands; there are mills for pounding it. It is faid to last good for some time; two or three boiffeau, of thirty pounds of wheat per arpent of 24,000 feet between two and three bushels per English acre. If a quantity is used it spoils the land. mysteries are these about this manure!

Befort .- Manure with blue marl.

To I/le.—The dunghills here are the neatest spectacles I have any where seen; the walls of them are twifted bands of straw, close and regular as a bee-hive, and some are covered at top with leaves and branches of trees to exclude the fun. Admirable! Deferving univerfal imitation.

DAUPHINE'.-Loriol.-Box, in this country, is cut on the mountains, for manuring vines, by burying it fresh at their roots. For mulberries also it is excellent. Three trees were planted at the same time, and in the same soil, one with box, and the other without, and there is now no comparison between them.

M. Foujas de St. Fond has tried gypfum, on a large fcale, on fandy land, for fainfoin

with great fuccefs.

Provence.—Salon to St. Canat.—Dead olive branches and cuttings, are piled up

with clods and rubbish for burning, as in Catalonia.

Tour d'Aigues.—Paring and burning is practifed every where; and, as in Ireland, in corners, holes, wastes, and even ditches, to make heaps of manure for their cultivated lands. They are now (September) burning every where. The common opinion is very much against it; but the President remarks that it has been practised here uninterruptedly, probably for two thousand years, yet the land is no worse than it has

always been.

The importance of manuring is well understood in many of the French provinces: where faults are to be found, it is more for exhaulting the benefit as falt as possible, than for want of knowing the operation and effect. The best farmers in England spread manures for ameliorating crops, in order that the hoe or the scythe may cut off the weeds that are apt to arise in consequence; and as such crops support cattle. the more manure is spread the more manure is made; it is in arithmetical progression; on the contrary, when it is given for exhaulting crops, as wheat or rye, the benefit is foon exhausted, and the increase, so valuable in the economy of a farm, does not take place. By means of fpreading the dung for those crops that support cattle and sheep, the live stock of a farm may be always gradually increasing; and it is impossible they should increase, without the farm improving, and corn itself augmenting by the ratio of the product arifing.

CHAP. XXX.—An English Farm established in France.

AMONG the most interesting observations which the Duke of Liancourt had made, in the various vifits he paid to England, was that of the superiority to which the industry of that kingdom was carried beyond the practice of France; and above all, to what a degree of perfection agriculture had attained, founded on experiment, and manifelt in an infinitely greater production of corn and of live stock than is to be found in almost any other country, extent and quality of foil confidered. Impressed with this fact, he

had long cherish ing wealth, flowi ple employed to could be introduc being practifed b prejudices, and u determined to att but as he was def should be so cond

His friend, Mo confented to acco zowski, whom I agriculture, which the best farmers, vation: he was li instance, as on ev views.

In 1789, Moni at thirteen league projected: he acc his family, and a farming implemen Suffex, to perpetu admit of it; to th

The farmer was a year; the land and situation, as to the feeding of catt anxious to attain, were most advanta that of Paris; he from other farms, which were appro have made fuch a dred arpents; to of his park. W labourers of the c instructing the co teaching the wom cheefe, &c. Monf Liancourt, to Eng hood, qualified th should grow tired they were dispose ments, the plough

To the cows fr zerland; the wh head, and hopes supplying them c had long cherished the hope of introducing into his own country this source of increasing wealth, slowing as well from the augmentation of produce, as from that of the people employed to raise it; but sensible at the same time, that the most useful innovations could be introduced by example only—a truth the more applicable to agriculture, from being practised by men of small fortune, little or no education, and consequently full of prejudices, and unequal to the pursuit of any practice, but that of the beaten track—he determined to attempt, as soon as it was in his power, an essay of English agriculture; but as he was desirous of having his example followed, it was necessary that these essays should be so conducted as to ensure success.

His friend, Mon. de Lazowski's residence during three years in England, whither he consented to accompany the sons of the Duke, facilitated these means. Mon. de Lazowski, whom I had the pleasure of knowing intimately, acquired that knowledge in agriculture, which much inquiry, assiduous application, and frequent conversation with the best farmers, could give to a mind very capable of, and much accustomed to observation: he was likewise no stranger to the projects of Mons. de Liancourt; and in this instance, as on every occasion, his unexampled friendship made him eager to second his

views.

In 1789, Monf. de Liancourt, on becoming the proprietor of a large estate, situated at thirteen leagues from Paris, resolved immediately to execute the plan he had so long projected: he accordingly engaged an English farmer to come over from Sussolk, with his family, and a common labourer; this English colony carried with it every kind of farming implement; they had with them likewise sive oxen, a bull, and sive cows, from Sussex, to perpetuate that breed, if the country into which they were transported would

admit of it; to these were added a Suffolk polled bull and five cows.

The farmer was placed in a farm that had hitherto yielded about two hundred pounds a year; the land was in some parts good, in others, bad; it was so divided in quality and fituation, as to render one part fit for the reception of sheep, and the other part for the feeding of cattle; these two objects were those which Mont de Liancourt was most anxious to attain, in the agricultural fystem he was about to introduce; because they were most advantageous, in a country surrounded by great markets, and very near to that of Paris; he added a large extent of land to the farm, taken from his park, and from other farms, confisting of about eight hundred arpents; two hundred and fifty which were appropriated to sheep, and the rest to the feeding of cattle; he designed to have made fuch additions to each part, as would have enlarged the whole to fifteen have dred arpents; to which, in process of time, he would have nearly dedicated the whal of his park. Whilst the Englishmen were beginning their operations, and form. labourers of the country to the use of the new fort of plough imported from Log-L instructing the common workmen as to the construction of the new implements, as a teaching the women fervants of the farm the management of the dairy, the making or cheese, &c. Mons. de Liancourt had fent two young labourers, out of the environs of Liancourt, to England, who, being placed by me with good farmers in my neighbourhood, qualified themselves to replace, at a future day, the English family, in case thele should grow tired of living in France, or to assist them if, as Mons. de Liancourt hoped, they were disposed to remain. The artizans of Liancourt learnt to imitate the implements, the plough and the cart brought from England, and made them very well.

To the cows from England, were added twenty four more from Normandy and Switzerland; the whole herd, a very fine one, amounted, in 1792, to a hundred and five head, and hopes were entertained of increasing the number to three hundred, and of supplying them completely with a sufficiency of food. The young beasts were not then

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of an age to allow of any decision being made, whether the produce of the Suffolk or Suffex breed would best succeed, but the whole afforded the most flattering hopes.

With regard to the flock of fheep—the Spanish ram crossed with the ewes of Berry and the Spanish ewes, and the Berry ram with the Flemish ewes, were the two breeds defigned to be established and improved; an English ram from Romney Marsh was also crossed with the Berry ewes, all of which answered perfectly well: the lambs were fine, but as this branch of business had been began later than the other, the prospect of its

fuccefs, although well founded, could not be entirely afcertained.

The lands had been put into excellent condition, in a country where inclosures were unknown; every field of the farm was inclosed by deep and broad ditches, with well planted hedges; gates were erected in all; the dry lands were irrigated, and the marshy meadows drained, by cuts underground; old lands, for ages patt judged incapable of yielding any produce, were burnt and rendered fruitful; the buildings on the farm were modelled to the new fystem, and to the management of the culture that was in-The two young French labourers were returned from England, and the English farmer (Mr. Reeve), an excellent one, and a very bonest man, fatisfied with his fituation, with his fuccess, and with the treatment he met in the country, thought only of continuing his employment, of increasing his success, and of seconding the intentions of his mafter. He was ordered to keep an exact and daily regifter of all the business transacted on the farm, to show it to whoever chose to see it, and to answer all their questions with truth, mildness, and patience, but not to entice any person to undertake an imitation of the English method of farming; Mons. de Liancourt thinking, that in every innovation, nothing lefs than felf conviction ought to actuate those who attempt it; and that by raifing their expectations too highly they rifk the faccefs, which fooner or later would not fail to attend their efforts. The cows of the diffrict were covered by the bulls of the farm whenever they were brought, and the produce from them was already found, by the people of the country, to be much finer; the culture of turnips and of cabbages, for the feed of cattle, abfolutely unknown before in the diffrict, began to be introduced; fome proprietors inclosed their fields; several others had made, for their own use, farming implements after the English model, and found them answer best the purpole; many more hands were employed, of all ages and of both fexes, in the farms; the English were received with pleasure in the country, and treated in the most cordial manner; every thing fucceeded to the utmost with, and these successes were, in great meafure, due to the indefatigable and enlightened vigilance of Monf. de Lazowfiti, whose heart is equal to his capacity.

The events of the 10th of August added the cruel necessity of forcing Monf. de Liancourt to renounce the hope of being useful to his country, as he had every reason to expect from these effays, to the other missortunes he has experienced from the same

caufe.

Agriculture was not the only object of improvement he fought to transport out of England into his country; he had likewife began to establish the spinning of cotton, a manufactory of linen, a stocking manufactory, and the sabrication of cards; he had engaged the different artizans in each branch from England, constructed buildings, and accided his garders to these various establishments; which, in 1792, already employed more than a thousand people in the district of Liancourt; and, although yet far firm naving attained to perfection, they were productive of the most falutary effects to the lower ranks of people. As these manufactures have remained in the possession of an Irishman, whom he had taken as an affociate, Mons. de Liancourt consoles himself with the idea, that the considerable sums of money it cost him to form these establishments,

were not dustry, in his boo father of orangeria in Angoi the cultivanan had success; the good very peopurt hir destroyin was unique The other than the success of the succe

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one of rural a travelle few of the fludious acquiring directly while the gant mer utility.

I. G II. T III. T IV. T were not wholly lost to the country he was so anxious to enliven and to enrich by industry. These establishments naturally recall to mind what the Marquis de Mirabeau, in his book De PAmi des Hommes, relates of the Duke de la Rochesoucauld, the grandfather of Mons. de Liancourt, having, in 1754, made a facrisse of one of the finest orangeries in France, and part of his park, to the inhabitants of his estate at Verteuil, in Angotimois, for the purpose of planting mulberry-trees, and raising of silk-worms, the cultivation of which was at that time scarcely known at Verteuil. This benevolent man had, before his death, the consolidation of seeing many good intentions crowned with success; Monss de Liancourt, on the contrary, has the sensible mortification of seeing the good he intended to do, and which he had so happily begun, destroyed by those very people for whom it was undertaken; and who, by a fatal error, in thinking to hurt him whose sole endeavours tended to their advantage, have hurt themselves, by destroying an establishment that would have been a gerin of national prosperity, and was unique in France.

The destruction brought upon such establishments, by revolutionary anarchy, is one, among a thousand lessons that teach the danger, to the dearest interests of the people, slowing from popular commotions. Little more remains of these agricultural establishments, than the merit of having made them, a source of heart-felt satisfaction to a worthy and patriotic individual. That he may be speedily reinstated in a property, which he lived only to improve and to adorn, is the sincere wish of that gratitude and friendship which pens this faint acknowledgment of merit.

ITALY.

Notes on the Agriculture of Lombardy.

ONE of the most interesting countries in Europe, for the practice of various branches of rural economy, merits a much closer and more minute detail than is possible for a traveller to give, who from the nature of his pursuit can do no more than retain a few of the principal features, to point out those circumstances which demand the most studious attention: some of these are so valuable, that years would not be milpent in acquiring a complete knowledge of them. On every subject, except what respects directly practical husbandry, the small number of my inquiries is of less consequence, while the pen is in the hand of my etteemed friend, Mr. Professor Symonds, whose elegant memoirs upon Italian agriculture* are fraught with information of unquestionable utility. I shall arrange the minutes I made in Lombardy under sour heads, which will include all that I think worthy of the reader's consideration.

- 1. General circumstances of the husbandry.
- II. The management of grafs lands.
- III. The management of arable lands.
- 1V. The encouragement or depression which agriculture receives from various causes.

^{*} Inferted in the Annals of Agriculture.

CHAP. XXXI.—General Circumstances of the Husbandry of Lombardy.

LOMBARDY is one of the richest plains in the world; for fertility of soil, united with the use that is made of it by watering, it much exceeds every other in Europe; but for mere natural fertility, I take the plain which extends from Holland to Orleans to consist of a richer soil, and it is also of a greater extent. From the foot of the Alps, near Suza, to the mouths of the Po, are about two hundred and fifty miles, and the breadth of this noble plain varies from fifty to one hundred, containing, probably, about fifteen thousand square miles. The Po bends its stately course through the whole extent, its branches ramifying, in innumerable streams, from the Alps on one side, and from the Appenines on the other; the prodigious extent of the former range, covered with eternal snows, afford a vast supply of water, preserved most conveniently in those immense reservoirs the Lago Moggiore, Lugano, Como, Isoo, Guarda, whose waters are the origin of the greater part of the irrigations of Lombardy. But in the Appenines there are no such reservoirs, nor any extent of snow similar to that of the Alps. Thus the space watered to the north of the Po, is probably ten times more considerable than that to the south of the same river.

The foil of Lombardy is, wherever I viewed it, either fand, gravel, or loam. I met with none, or at least, with very little clay (speaking always as a farmer, and not as a

paturalist), and no chalk.

Under this head I shall infert the notes I took concerning—1, foil; 2, climate; 3, inclosures; 4, farms and tenantry; 5, rent and price of land.

SECT. I .- Of Soil.

PIEDMONT.—After passing the Alps from Nice, and descending towards Coni, in the level and fertile vale of Piedmont, the soil is every where a rich sandy loam, with small appearance of clay. Wherever rivers, or rather torrents are sound, we see great tracts of stone and shingle, which were brought by the water from the mountains. The Dora Baltia offers this spectacle; from that river to Ciglione, are plains and wastes of gravel. The rice country of Verceil is a sandy loam. The district of the Sesia is gravel. The Tesin is the same. The gravels of Piedmont are all full of round stones, from the size of an egg to that of twice a man's sist.

MILANESE.—In the way from Milan to Pavia, great tracts of gravel, which would not be very valuable without water. To the north of the city, about Mozzatta, &c. they have two foils chiefly,—a firong loam, a little clayey, blackifh, and free from stones: and a gravel mixed with loam, some blackifh, dries quickly, and always loose.

The Lodizan is a loamy fand, or loamy gravel *.

STATE OF VENICE.—The whole way from Vaprio to Verona, there are very great tracks of gravelly loams; there are also some sandy ones; the soil naturally is not deep or rich, though there are tracks that merit both those epithets. The territory of Verona is, in general, indifferent, and would not be of great value, were it not for water, and much industry. The best meadows and rice-grounds not more than nine inches deep on stone and gravel. For some miles from Verona, the stoney

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^{*} The Lodizan foil is termed, by the Italian writers, oriola; a blackish fand, mixed with clay. The Gera d'Adda of geriva, a gravel, composed of fand and reddish gravel, with a little clay. The Cremonese, a red feroginous earth. Sand and gravel every where. Atti di Milano, tom. ii. p. 163.

gravel continues; but towards Vicenza, much fine red and brown, deep, friable, fandy loam, with few or no stones.

ECCLESIASTICAL STATE.—FERRARESE.—In the Ferrarefe, between Paffo Siener and Bologna, the foil is two feet deep; of a brown fandy loam, with a yellowish hue under which is one foot of fand, and then blue clay, apparently ferruginous. In cutting, not long ago, through a field, for raising a bank, they met with a heap of ancient bricks, five feet deep. From Ferrara to Bologna, the foil is, to all appearance, the richest I ever beheld; deep, friable, and with that degree of tenacity which marks great fertility; it feems to be entirely a deposition of waters, that have brought those fine particles which are held suspended, and which render that sluid turbid: those almost impalpable particles which are long in substiding.

Tuscany.—All I faw of this territory is a rockey stone brash, or gravel. The soams are compounds of it, with more or less vegetable mould; I saw scarcely any tracts, large enough to be worth mentioning, that are exceptions. It is, upon the whole, though improveable, not a fertile soil; and, if olives were not well adapted to it, would be productive of little beside sheep-walk; to which animal, all I saw of this country, is admirably adapted, and would, I doubt not, produce as sine wool as Spain itself.

MODENA AND PARMA.—A rich fandy or gravelly loam is predominant through these dutchies; in many tracts it is deep, most, and friable, as I saw in the lands which were receiving. their autumnal preparation for beans in the spring. In some districts it is of a firm texture, but not clay. Much the same soil, but not equally deep, is found in the ceded provinces of Vogara, Tortona, and Alexandria; but parts of the last more tenacious, and to be ranked among the stiffest I met with in Lombardy.

SECT. II .- Climate.

ON the climate of Lombardy, Mr. Profesior Symonds is so full and satisfactor; that the reader can be no where so well instructed.

PIEDMONT.—The great complaint in Piedmont, is the excessive heat in summer; equal, I was assured, to almost any that is felt on the globe, and of a suffocating quality; while the frost in winter are as severe, in the contrary extreme. The pestiferous climate of Sardinia is known to every body; though between 39 and 41 degrees latitude; in the southern part of the island, they are not forwarder than in the Milanese: they cut their corn in the north part in July: in the Milanese before the end

MILANESE.—The most remarkable circumstance in the climate of the Milanese, is the mildness and warmth of northern and mountainous tracts, and the severity felt in the plain. This fact is found particularly around the lake of Como; upon all the western coast of that lake, which is about forty miles long, the agrumi, as the Italians call oranges, lemons, &c. are found, exposed to the open air, in good perfection; yet the whole of the lake is bounded by the high Alp, which, immediately to the north, are covered with eternal snows. On the rich plain of Milan, and thence to the Appenines, no such plant can be left exposed; olives are not seen, and oranges, lemons, and bergamots, must be covered in winter. These agrumi are found chiesly on the west coast of the lake, but some are scattered on the eastern. It is the shelter assorbed by the

mountains, in peculiar positions, that has this effect. The same circumstance is found in the Lago Maggiore, where the samous Borromean Islands are covered with agrumi. In all the Milanese, dry summers for corn (I believe it is the same every where in Europe) are most productive *.

In an experiment made at Vicenza, in the Venetian State, by the Academia Agraria of this city, they fowed wheat October 18, 1787; came up the 28th; the ears appeared

May 2, 1788; the flowers May 13; reaped June 19.

Tuscany.—I was at Florence the beginning of November, and the ice was four inches thick; a feverity never yet known in England. The English were, at the same time, skating at Rome.

One-fifth of all the productions of the earth are calculated to be destroyed by hail

and other accidents.

PARMA.—In the management of the vines in the Parmazan, there is a practice which fliews the conflant dread of fevere frosts. All the vines are now, in November) turned down, and the end shoots buried † in the earth to preserve them; yet in a wet season they suffer by this treatment, as well as in all seasons, by being stript from the trees, in

order to undergo this operation.

Mr. Professor Symonds, in the excellent paper quoted above, removed the common erroneous idea of the fine climate of Italy; I made many inquiries concerning the leading facts, and have every reason to believe, that it is in point of health and agreeableness, one of the worst climates in the world: with the views of a farmer, however, it must be confessed, that the productions which the whole peninfula owes to its climate are very valuable; to omit speaking of Sicily or Naples, I may remark, that planting the poor brashy hills of Tuscany with olives is an advantage unequalled by any thing to be met with in the north of Europe; that the produce of first throughout Lombardy is an object of the first importance—That rice is found to be an article of almost unrivalled profit—That the productive state of the meadows is indebted almost as much to the heat of the summers, as to the plenty of water; and, for any thing I know to the contrary, the admirable quality of the cheese also. These are all objects of great magnitude, and entirely derived from climate.

SECT. III .- Inclofures.

PIEDMONT.—It is not very easy, in many parts of Piedmont, to pronounce, on a superficial view, whether the country be open or inclosed; but, on a nearer inspection, the

* T'e fame remark was made long ago, in 1540;
MDXL Extructum
Annus his biffextilis fuit, et luminare majus
Fere totum eclypfavit
A feptimo idus Novembris ad feptimum ufque Aprilis idus
Noe nar nec agua vifa de cælo cadere
Attamen, paæter mortalium opinionem. Dei elementia,

Et m. flis et vindensia multa.

It is extraordinary, that in 1779 there was an almost total celipte of the fun, followed by a fine winter, the Jame as it 149. There was a small celipte on the 7th of April, 1540, but an almost total one the 15th of April, 15 9 and which it is quantity and dustrion, was very much ble that the 24th of Jine, 1779, The crop was abundant, as it appears by the prices of the year, in the Ledger of the Cilterian Monks. Wheat, 1517, the moggin, 5 livres. In 1541, duto, 4 livres. In 1541, duto, 1 livres. The ducat of gold or seechin the attention of the Cilterian di Cromona, anno 1540, freaks of the extraordinary of the contraction of the contract

dego to of the spear the abundance of crops, and hubjoin, that the corn was cut the middle of May, and the crotage the higginium of Angull. This is that the first days fooner than at prefent, and the virtage two anouths. Could be seed to in p. 136.

† The tame practice was known among the antients. See Stabo, lib. vii. and Quint. Cut lib. vii. e. 3.

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PARMA.— PIEDMON declined: the only bad dite

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THE pre fame fystem France. Th nant provide fystem preva found. Th pay taxes, at the burthen. of Europe; great farins, from Nice to the cafe, wh That belong very confider VOL. IV.

greater part by far found to be inclosed; generally by ditches, and, in many diffricts, with hedges also; which, in some places, are as complete as in the best English counties.

MILANESE.—Much the greater part of this territory is inclosed, either with hedges or by ditches, which serve as conductors of the water used in irrigation. These, in the Lodizan, and other districts to the south of Milan, are planted so thickly with willow and poplar pollards, that the country looks every where like a wood.

VENETIAN STATE.—Much of the country from Bergamo to Brescia, is very thickly inclosed with hedges. From Brescia to the Lago di Guarda it is the same; but from

thence to Verona not equally fo.

ECCLESIASTICAL STATE.—BOLOGNA.—The whole Bolognese is inclosed. They make and plash their hedges with the nicest attention: made with dead stakes, about four feet high, and tied in cross lines, with great neatness and strength. This care is, however, exerted for the boundary of the farm only; subdivisions of this kind are rare.

Tuscany.—There are no rights of commonage in all Tuscany; thanks to the wisdom of Leopold; every man has a right to inclose his property as he pleases. The Appenines, crossed from Bologna to Florence, are however mostly uninclosed, and almost waste.

MODEN A.—From the city of Modena to Reggio, the inclosures are very neatly formed of well made hedges without any ugly sprawling ones; but all either trimmed or made so often, that they are not suffered to spread.

PARMA. - To Firenzuola all the country is inclosed.

PIEDMONT. - Tortonefe. - The fences from the Duchy of Modena hither are greatly declined: there are fome hedges every where; but many large fields all the way, with

only bad ditches or banks.

Lombardy, upon the whole, must be considered as an inclosed country, and much of it closely so. It would indeed be a glaring absurdity to keep land so extremely valuable in an open state. The importance of inclosing is well understood, and where not practised in perfection, it arises from causes that form exceptions rather than effect the general rule.

SECT. IV .- Of Farms and Tenantry.

THE predominant feature in the farms of Piedmont is metayers, nearly upon the fame fystem which I have described and condemned, in treating of the hutbandry of France. The landlord commonly pays the taxes and repairs the buildings, and the tenant provides cattle, implements, and seed; they divide the produce. Wherever this system prevails, it may be taken for granted that a useless and miserable population is found. The poverty of the farmers is the origin of it; they cannot slock the farms, pay taxes, and rent in money, and therefore must divide the produce in order to divide the burthen. There is reason to believe that this was entirely the system in every part of Europe; it is gradually going out every where; and in Piedmont is giving way to great farms, whose occupiers pay a money rent. I was for some time deceived in going from Nice to Turin, and believed that more of the farms were larger than is really the case, which resulted from many small ones being collected into one home stead. That belonging to the Prince of Corignan, at P.W. Bruna, has the appearance of being very considerable; but, on inquiry, I found it in one hands of seven families of metayers.

In the mountains from Nice to Racconis, however, they are small; but many properties.

as in the mountains of France and Spain.

The Caval. de Capra, member of the Agrarian Society, affured me, that the union of farms was the ruin of Piedmont, and the effect of luxury; that the metayers were difmissed and driven away, and the fields every where depopulated. I demanded how the country came to have the appearance of immense cultivation, and looked rather like a garden than a farm all the way from Coni? He replied, that I should see things otherwife in passing to Milan: that the rice culture was supported by great farms, and that large tracks of country were reduced to a defert. Are they then uncultivated? No. they are very well cultivated, but the people all gone, or become miserable. We hear the same story in every country that is improving: while the produce is eaten up by a fuperfluity of idle hands, there is population on the spot; but it is useless population: the improvement banishes these drones to towns, where they become useful in trade and manufactures, and yield a market to that land, to which they were before only a burthen. No country can be really flourishing unless this take place; nor can there be any where a flourishing and wealthy race of farmers, able to give money rents, but by the destruction of metaying. Does any one imagine that England would be more rich and more populous if her farmers were turned into metayers? Ridiculous. The intendant of Billatti added another argument against great farms; namely, that of their being laid to grafs more than small ones; furely this is a leading circumstance in their favour, for grates the last and greatest improvement of Piedmont; and that arrangement of the foil which occasions most to be in grass, is the most beneficial. Their meadows are amongst the Snest and most productive in the world. What is their reable? It yields crops of five or fix times the feed only. To change fuch arable to fuch grafs, is doubtless the highest degree of improvement. View France and her metayers-View England and her farmers; and then draw your conclusions.

THE MILANESE.—Wherever the country that (I faw) is poor and unwatered, in the Milanefe, it is in the hands of metayers. At Mozzata the Count de Castiglioni flewed me the rent book his intendant (iteward) keeps, and it is a curious explanation of the fystem which prevails. In some hundred pages I saw very few names without a large balance of debt due to him, and brought from the book of the preceding year: they pay by fo many moggii of all the different grains, at the price of the year: fo many heads of poultry, fo much labour, fo much hay, and fo much straw, &c. But there is, in molt of their accounts, on the debtor's fide, a variety of articles befide those of regular rent: fo much corn of all forts, borrowed of the landlord for feed or food when the poor man has none: the fame thing is common in France, wherever metaying takes place. All this proves the extreme poverty and even mifery of these little farmers; and shews that their condition is more wretched than that of a day labourer. They are much too numerous, three being calculated to live in one hundred pertichi, and all fully employed by labouring, and cropping the land inceffantly with the spade, for a produce unequal to the payment of any thing to the landlord, after feeding themselves and their cattle as they ought to be fed; hence the universal distress of the country. Those who are advocates for finall farms, should come hither, and see how they infallibly generate poverty in every cottage. The furplus of population is not demanded by manufactures, or by towns; the increase therefore is only the division of a pittance of food amongst many mouths instead of a few. 1. is impossible to prohibit procreation, or to force emigration; but it is in a landlord's power to introduce gradually and prudently, a different fystem-to occupy a large farm himself, cultivated accurately by day labourers of all ages

ages and fe gross and f teration in is at prefer example of in countries in others w in prefervin a country f of the peop count-book other: but much being terest in kee paying their temptation i tion of nun property, is country, by remembered not in the P and the farn hands of po which should nicious fyster ing them to that their la

In the wa the particula hundred per and fifty per wheat, rye, bulls; forty And at Code kept: two t others; nin one waterm farms they h in thefe dairy prictors, but

VENETIA half produce woods. Th the taxes on

But infled Annot. ful Mitt This who of detellation r

ages and fexes, well paid, and if this be not fufficient, to establish a manufacture of some gross and simple kind, to employ the population already existing; and by a gradual alteration in his farms, to proportion the food to the mouths that are to eat it *. There is at prefent an inducement to such a change, that ought to weigh very seriously: the example of the French revolution will fpread, and will be much more apt to take effect in countries where there is nothing but the great land owner and the poor cottager, than in others where there are intermediate ranks of men of fubstance, who have an interest in preferving public order. What a temptation to confusion and rebellion is it, to have a country full of miferable metayers, all deeply indebted to the feigneur? Nine-tenths of the people in such a case, have an immediate interest in burning his castle and his account-books, for he stands single, on one hand, against all the people, swarming on the other: but in the watered plain, where the farms are large and not populous, from fo much being in grass, there is every where a race of wealthy farmers, who have an interest in keeping the people quiet, - who are united with the landlord, - and who, paying their men in money, without these long and dangerous accounts, have not the temptation to revolt; or even if they were tempted, they would not have the disproportion of numbers to render it equally dangerous. The great object of men who have property, is at prefent to fecure it - and they can have no fecurity, while they fill the country, by metaying, with fwarms of a flarving and indebted peafantry. It fhould be remembered that the mischievous confusions, plundering, and burnings, in France, were not in the Pays de Beauce, nor in Picardie, nor in Artois, where metayers are unknown, and the farms large; but in the Maçonnois, in Breffe, in Sologne, where all are in the hands of poor milerable metayers; an inflance, furely, express to the purpose, and which should have its weight with Italian landlords. But to work a change in this pernicious fystem, demands a residence on their estates in the country, instead of abandoning them to the rapacity of stewards; it is not by living in the frippery of great cities, that their landed property is to be arranged on fafe principles †.

In the watered parts of the Milanefe, great and rich farmers are found. Here are the particulars of a farm I viewed, between Milan and Pavia; viz. three thousand one hundred pertichi; one thousand fix hundred of rice; two hundred flax; four hundred and fifty perennial grass; four hundred and fifty clover; four hundred arable crops, wheat, rye, maiz, millet, oats, &c.; twelve horses; eight oxen; fifty-five cows, two bulls; forty labourers; rent 20 livres the pertica; the whole capable of being watered. And at Codogno the following are the particulars of one, where one hundred cows are kept: two thousand pertichi; one hundred cows; one cazaro; one fotte cazaro; fix others; nine for corn; one agent; one guard against thieves, and those who steal water; one waterman. To stock such a farm 50,000 livres necessary. By means of such farms they have rich farmers; some worth 100,000 livres. The general idea of profit, in these dairy districts, is ten to sisteen per cent.; some dairy farms are occupied by pro-

prictors, but the number is inconfiderable.

VENETIAN STATE.—All the lands in the Brefeian and Veronese territory are let at half produce, à la meta; even vines: but some meadows are usually reserved, and also woods. The proprietor pays the land-tax, and the farmer provides live stock, and pays the taxes on it.

† This whole pattage is left as originally written; before French horrors rendered French politics objects of detellation rather than example.

^{*} But instead of the number of farms decreasing, they are increased, as we learn from Sig. Lavizari, Annot. ful Mitterpacher, tom. i. p. 221.

Sig. Locatelli has a farm of one hundred campi, within two miles of the city, which yields him two hundred and fifty zecchini nett; this is fomething more than 30s. an acre. He has also another farm more distant, of fix hundred campi, which yields fix hundred and fifty zecchini nett; on which there are eight cows, twenty-two oxen, and one hundred and fifty sheep.

In the Vicentine †, rent when calculated in money two and a half zecchini per campo.

They have farms fo large as two thousand campi.

In the Paduan, one hundred campi are a large farm; common 60; fmall 40; and they reckon finall ones the best cultivated; if this be fact, and not a matter of opinion in the gentleman, my informant, it shews that their husbandry must certainly be esteemed bad; it is, however, questionable, for the reason added was, that there were more people on small farms; a sure proof that the progress of improvement has not been carried far. To flock a farm of a hundred campi, one thousand ducats are necessary, reckoning the ducat at 3s. which is not exact; this is a poor stock, for it does not exceed 33s. the English acre. The arrangement of the farms in the Paduan, may be guessed at, in fome measure, from the following particulars; there are found, in the whole district, two hundred and eighty-eight thousand three hundred souls; forty-nine thousand, nine hundred and forty-three cows and fatting cattle; forty-one thousand plough oxen; one hundred and two thousand sheep; fixteen thousand five hundred and ninety eight hogs; feven hundred and thirty-one mules; two thousand three hundred and eightyone affes. One Professor informed me, that in his opinion, the great mischief of the country is, that of great land proprietors letting their estates to undertakers or middlemen, who will hire to the amount of 10,000 ducats a year; and in re-letting to farmers will fqueeze them fo that they cannot live, to the great degradation of the country. Another professor said, that the district of Padua is not so well cultivated as the Vicentin, by reason of the greater poverty of the farmers and peasants, who are miserable, and have no power to make the land yield well. Indeed I learned, from very good authority, that the Paduan is not equal to the Vicentin, except in the mountains, where the peafants are much more at their case than in the plain.

ECCLESIASTICAL STATE.—BOLOGNA.—Estates here are very generally let to middle men, who re let them to the farmers at half produce, by which means the proprietor receives little more than one-half what he might do on a better system, with a peasantry in a better situation. The whole country is at half produce; the farmer supplies implements, cattle, and sheep, and half the seed: the proprietor repairs. Silk, and even

wine on the fame tenure.

Particulars of a farm (Sig. Bignami's) of fix hundred tornature; three hundred and fixty on the hills; the relt on the plain: fix metayers; thirty-fix working exen; twelve cows; twenty young cattle; one hundred theep. Produce, two thousand corbi of

wine; three to four hundred corbi wheat.

Tuscany.—Letting lands at money rent, is but new in Tuscany; and it is strange to fay, that Sig. Paoletti, a very practical writer, declares against it †. A farm in Tuscany is called a podere: and such a number of them as are placed under the management of a factor, is called fattoria. His business is to see that the lands are managed according to the lease, and that the lauddord has his fair half. These farms are not often larger than for a pair of oxen, and eight to twelve people in one house; some one hun-

† Penfieri, &c. p. 162, 164.

dred pertid pair of oxe Florence) without ob and legum trary. It of oxen, ca who provid him to pro ftory of Fr ants upon poor, that mixture wi aquarolle; lars they w in the Val the cattle a of 3 livres at Castello 28 [, at 7), pair of oxe people, of now 15; whole for a and a half receipt for acre, and

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^{*} Particulars of a farm of one hundred and twenty campi: twenty of meadow, not watered; ninety of corn; ten of clover; latteen oxen and young cattle; three cows; two horses; sour hogs; seven men; four ditto with oxen; hear women; two children.

dred pertichi (this measure is to the acre, as about twenty-five to thirty-eight), and two pair of oxen, with twenty people. I was affured that these metayers are (especially near Florence) much at their ease; that on holydays they are dressed remarkably well, and not without objects of luxury, as filver, gold, and filk; and live well, on plenty of bread, wine. and legumes. In some instances this may possibly be the case, but the general fact is contrary. It is abfurd to think that metayers, upon fuch a farm as is cultivated by a pair of oxen, can be at their ease; and a clear proof of their poverty is this, that the landlord who provides half the live flock, is often obliged to lend the peafant money to enable him to procure his half; but they hire farms with very little money, which is the old ftory of France, &c.; and indeed poverty and miserable agriculture are the sure attendants upon this way of letting land. The metayers, not in the vicinity of the city, are so poor, that landlords even lend them corn to eat: their food is black bread, made of a mixture with vetches: and their drink is very little wine, mixed with water, and called aquarolle; meat on Sundays only; their dress very ordinary. Yet in all these particulars they were in a worse situation before the free corn-trade. The richest peasants are in the Valdichiano. The most common agreement is, for the landlord to furnish all the cattle and sheep, and to pay the taxes, except the capitation on the peasants' family of a livres for all above three years old. In a confiderable fattoria of eighteen poderi, at Castello Villa Pali Martelli, the largest is two hundred stiori (thirty-six acres, at 54; 28; at 7), and 70 the smallest. Particulars of one of one hundred and ninety stiori; one pair of oxe; two calves; one horse; one mule; no cows, sheep, or hogs; fourteen people, of all ages and fexes; taxes before the grand Duke's redemption, 80 pauls, now 15; tithes 15 pauls, half paid by landlord, half by peafant; this is 6s. 8d. in the whole for about thirty acres. Produce corn, one hundred and eighty scudi; filk, fix and a half; wine, fifty-eight; oil, fixty; in all 851.; the half, or 441. is the landlord's receipt for these articles, or above 11. 5s. per acre, at five stiori and a half to the English acre, and il. 11s. if at feven. No small proprietor.

Villamagna.—Sig. Paoletti, rector of this parith, and author of fome valuable works on agriculture, which I have had occasion to quote, was so obliging as to give the following detail of the three poderi belonging to his living, from which the arable economy of this part of Tuscany will be well understood.

Three Poderi; this. Families.

Seed fown.—48 staji of wheat — 168 ?iori of land.

3 ditto vetches — 7½

24 ditto beans — 28

6 ditto oats — 10

Artificial grasses; viz. clover,
great millet, vetch, and
oats, all for forage — 24

Wood, — 283

The stajo of wheat, of forty pounds English (sifty-two pounds to sifty-sive pounds Tuscan), sows three stiori and a half, and yields eight or nine times as much; vetches sour times the feed; beans three times; oats seven times; the wheat is a tolerable crop; all the rest miserable. If the farms, immediately under the eye of this able writer, yield no more in this metà system, we may suppose the poverty of the common products; we have on the worst lands in England no idea of such crops as these of vetches, beans, and

oats. There are further on the three poderi, thirty-fix sheep; one mule; fix oxen; and four cows; also fifty barrels of oil, at five scudi; and three hundred and eighty barrels of wine, at 10 livres the barrel, vintage price, but at a year old 15 livres or 16 livres; in filk 25 scudi; and in wood 10 scudi, for three-sourths of the woods are in a state of desertation. These poderi are let a la metà; repairs are done by the proprietor; live stock belong to the incumbent, and neither to the church nor to the pensants; implements belong to the tenants; feed-wheat, three sourths to them, and one sourth to the owner; of spring-corn, all to the latter; also all forts that are put in with the ranga (spade), as the land is so much the better laboured. Let it be remembered, that the spade being preferred to the plough, is the most decisive proof that tillage is in a state of mediocrity, if not barbarism.

MODENA.—In the mountains there are many peafant proprietors, but not in the plain. A great eril here, as in other parts of Lombardy, is the practice of the great lords, and the possession of lands in mortmain letting to middle-men, who re-let to metayers; under which tenure are all the lands of the duchy. The tenant furnishes one-half of the cattle, and the landlord one-half. To Reggio the number of scattered houses very great; good; and with neatly hedged home-stalls: apparently there is not a labourer's house

in all the country; all metaying farmers.

PARMA.—Appearances from Reggio to this place are much inferior to those from Modena to Reggio; the sences not so neat; nor the houses so well built, white, or clean. All here metayers; the proprietor supplies the cattle, half the feed, and pays the taxes; the peasant provides the utensils. In the whole dutchies of Parma and Placenza, and indeed almost every where else, the farms must be very small; the practice I have elsewhere noted, of the digging the land for beans, and working it up with a superfluity of labour, evidently shew it: the swarms of people in all the markets announce the same satt; at Placenza, I saw men whose only business was to bring a small bag of apples, about a peck; one man brought a turkey, and not a fine one. What a waste of time and labour, for a stout fellow to be thus employed.

Savoy.—All the peafants are preprietors. So long ago as the year 897, lands were let on leafe for twenty-two years, and not only for a payment of fruits or fervice, as in all the northern parts of Europe, but partly at a money-rent. This hews how vally

more forward Italy was in those early periods, than the rest of Europe *.

It is faid, that in 1464 began the cultom of letting lands on a three years leafe t.

SECT. V .- Rent and Price of Land.

This, as I have endeavoured to explain already, in the case of France, is one of the most important inquiries in rural ocenomy. The vulgar notion is, that nothing railes the value of land, but trade or manufacture. If the result of my travels were only to produce facts sufficient to overturn so false a theory, my time would not be altogether lost.

PIEDMONT.—Chentale.—Land in general is fold at 800 livres, or 900 livres the giernata, which is to the English acre as 7440 is to 7929. (Paulion) At a distance from

† Caronelli fopra l'Inflituzione Agraria della Cioventu. 419. 1789. p. 58.

Good water

Turin.—Trour miles f water, it de a week of fi (79l. 19s. pe livres. Ant biano, five to Near the towarable water livres to 550 the very fine let at 70 livre will be about

MILANES
the pertica *
English, 100
to pay 2½ to

Vercelli .-

Between soo livres:

From Mil miles, the r new leafe fo

* The difficton, in his Me should contain of the Patriotic another, 1479 pertica.

Monf. de la arpent is to the at five perticas. In the notes

French feet, w
Count Carli,
on the cenfiment
del S. Conte C
to 32, there ar
thor (ays .p. 3
lift mile; this

Finding for lan is two Eng

Of these the ta English seet, and by this est

⁻⁻⁻ Uncerto Donno, che cerca da P. estate di S. Ambrogio a nomo di livello, per ventidue anni, alcune terre nel Contado di Brefei, ch'eu no del moni, ero d'Orona i prosettando di pagare a filto cioè per fifta annvale terreno tanta quantità di generi, e di denaro. Secula modia decem Seligine flu in dundecem, fulu & & &c. Ginling govono; "Qui chiavamente si comtrende, che r'ingenno il Mattivii il quale credette, che la fegale foffe la filigine degl. antichi." Memorie della Citta e della Camp, di s'ilano Guilini parte ii, p. 62.

towns, 600 livres to 850 livres. Some at 1000 livres (53l. 6s. per English acre). Good watered meads, 1000 livres to 1200 livres.

Turin.—The price of land in the environs of Turin, as may be supposed, is very high. Four miles from the town some is fold without water, at 1200 livres the giornata: with water, it depends on quantity, and the value is immenfe. Land that has one hour a week of fuch a stream as will water five giornata in that hour, fells at 1500 livres (791. 198. per English acre); if it waters two giornata, 1000 livres; and if three, 1200 livres. And fuch watering adds at least one third to the value of the land. At Cambiano, five miles from Turin, arable land fells at 3000 livres, but this is uncommon. Near the town fuch prices as 3000 livres and 4000 livres are known. But in general, arable watered, near Turin, fells at 1000 livres; at a diffance and not watered, 200 livres to 550 livres. If a general average were to be made of all forts of land, except the very finest, it would be about 500 livres. In regard to rent, but little is let for money, chiefly at one half produce; but fuch as would fell at 1000 livres would let at 70 livres to 75 livres. If two-thirds a a d one third meadow, 40 livres will be about the rent in good lands. In the state of Turin, arable lets at 30 livres. Vercelli.—Rice grounds, 500 livres; good nd, 800 livres; watered meadow,

600 livres and 700 livres per giornata.

MILANESE. - The price varies from 15 livres poorest wastes, to 1000 livres the pertica *; but from 600 livres to 1000 livres more common. As the livre is 7 id. English, 1000 livres is 981. 19s. 2d. per acre. It is usually bought in such a manner as to pay 21 to 3 per cent. for the purchase money.

Between Milan and Pavia, land rendered good by water, fome fells at 300 livres to

500 livres: at 300 livres it lets at 12 livres.

From Milan to Mozzata, when you have passed the watered plain, which is in a few miles, the rent in general is not more than 4 livres or 5 livres the pertica. In every new leafe for a long period, fuch as eighteen or twenty-one years, there is always an

* The difficulty I have met with, in afcertaining the contents of a Milauese pertica, is strange. Paucton, in his Metrologis, makes it to the English acre, as 0.14727 is to 0.7929, by which proportion, it should contain 8090 feet, or about 5\frac{1}{2} perticas in an acre. Count Alexander Cicogno, in the Memoits of the Patriotic Society of Milan, vol. ii. p 304, says, that if feeds are planted at fifteen oncie one from another, 1479 will plant a pertica. As the oncia is two inches English, this makes 9243 English feet in a pertica.

Monf. de la Lande fays, that it takes more than five perticas to make an arpent de Paris; now as that arpent is to the English acre, 0.66,4 is to 0.79.9, there are consequently 36,775 English seet in that arpent;

at five perticas, it would confift of 7355 English feet or about fix to an acre.

In the notes to the new edition of the Fenti Giornata of Gallo (1775), this pertica is faid to contain 6152

French feet, which will not differ materially from De la Lande.

Count Carli, who was prefident of the supreme council of Finances at Milan, and has written intelligently on the confinento (sys, L'arpent di Francia flu allu sertica Milanese come 1 ad uno prossimamente. (Delle opere del S. Conte Carli, ovo, 17.4, tom i. p. 223.) The arpent of France being to the arpent de Paris as 48 to 32, there are 55,102 English feet in it, and in the pertica (at 1 to 1) 31,500 feet. But the same are thor (ays, p. 320.), there are 4838 pertichi in a square Italian mile; if so, there are 3628 in a square English mile; this makes 51 and t-6th pertichi to an English acre.

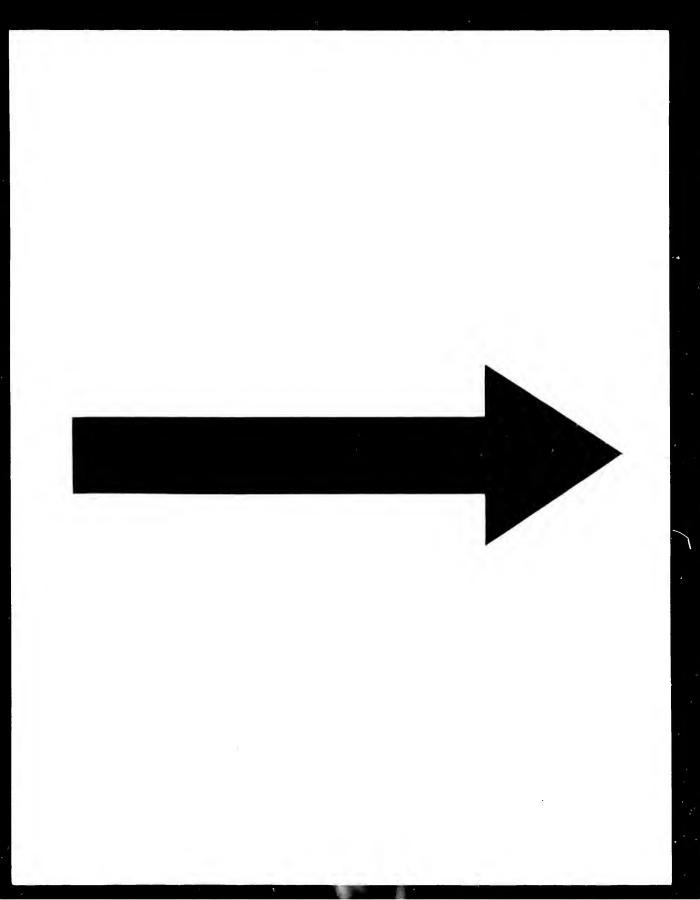
Finding so many contradictions, I judged it necessary to recur to different authority. The oncia of Mi-

lan is two English inches, and the measures thus arrange themselves:

One pertica : 4 tavoli. One tavoli 12 piedi. One piede 12 oncie.

Of these the tavola and pertici are square measures, the former containing 12 piedi square; this makes 576 English feet, which multiplied by 24, the result is 1,,824 feet for a pertien, or about 3% to an acre; and by this estimate I shall calculate.

augmentation



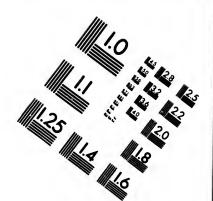
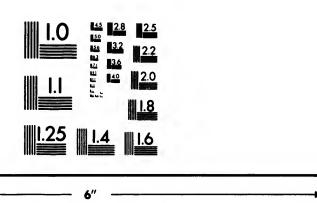


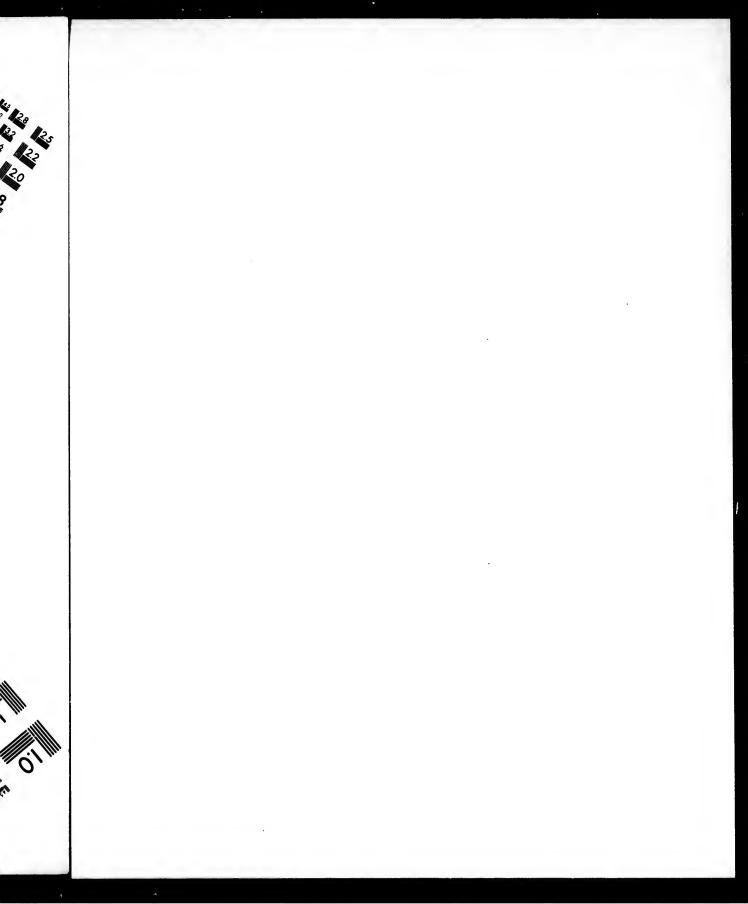
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augmentation of rent in every part of the Milanese, and generally to a pretty considerable amount. There is also an undoubted augmentation in the specie current in the country, and the prices of every thing have risen at the same time that money has increased. It highly deserves noting by the politician, that as the Milanese substitutes in the duce, without trade (other than the sale of that produce) and without manufacture; it is remarkable that it has experienced an advance in its prosperity, as well as countries that seem to engross both trade and manufacture; even at a period long after it had attained a height of cultivation and improvement, to which those trading countries have little to oppose.

Lodi.—The best land near this place, 600 livres the pertica (59l. 8s. per English acre); but farther off, 300 livres to 350 livres. The Spina, a farm I viewed, belonging to the Caval. Don Bassiamo Bona Noma, lets at 30 livres, others at 25 livres; but the common price 12 livres to 15 livres. The best land and highest rent is all for

cows.

Codogno.—Watered lands fell at 300 livres the pertica; and let at 10 livres (19l. 9s. per English acre) nett rent, tenant paying censimento, &c.

		liv.	ſ.
Rent nett,	•	10	0
Water tax for distribution,	-	1	0
Censimento, -	-	2	5
Total rent, -	•	13	5

VENETIAN STATE.—Bergamo.—Price of land near Bergamo, 80 ducats the pertica. The ducat is 8 livres, and 50 livres the pound sterling; and if the editors of Agostino Gallo be not missaken, there are 6194 French feet in a pertica; on these proportions,

land fells at 781. 8s. per English acre.

Brestia.—The best fells at 800 scudi; commonly from 300 to 500 scudi the jugero.

This measure containing four pertichi, and the English acre 41, makes 400 scudi to equal 591. per English acre, at 7 livres the scudo.

The best land of 600 scudi, amounts confequently to 1181. Rents, per jugero, 5 to 10 scudi; the mean, 71 scudi, equals 22s.

English acre.

Verona.—Land here commonly fells at 70 zecchini the campo (441. 6s. per English acre), and yields to the proprietor 3 to 4 per cent. I viewed an arable field close to the city, yet sowing with wheat, that would fell for 100 zecchini per campo: and some other lands just out of the Porta Nouva, that are excessively gravelly, would fell for 15 zecchini; such poor land, at a distance, would not fell for more than 8 or 9 zecchini (51. per English acre): it is however not so bad, but that good mulberry-trees are on it.

Vicenza.—The best watered meadows sell at 2400 livres to 3000 livres the campo, which is about 651 per English acre, the best arable is nearly as valuable. The worst arable 300 livres; in the best there are neither mulberries nor vines. Common price 900 livres to 1000 livres, and the produce 110 livres per campo, about 55s. the acre. The highest rent in money is 3 zecchini the campo, common 1, 1½, or 2 zecchini. But

in general land is let at half produce.

To Padua.—The best lands sells at 45 zecchini the campo: rice-grounds are at that

price.

Padua.—The best arable land sells at 200 ducats; of 6 livres 4s. The campo is 840 pertiche quadrate, each of six seet, consequently 30,240 seet; but the foot is one inch longer

longer th to th und and confe ducats; Estates pa

affords the for the fathe rich pent, it var for fuch le from 81. the capital

Tusca metà, is a lish acre† tains. N ing, doub before the shackles?

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DUTCH is twenty English ac 500 livres 18l. an ac 70l. an ac 2500lb. (t zecchini p

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300 livres

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^{*} Mr. Pau metician eno: † This at

VQL. IV

longer than the Paris foot: it is therefore equal to about 35,280 Paris feet *, or about 15th under an English acre. Middling land 95 ducats; bad 50 ducats; rice grounds, and confequently irrigated, 200 ducats; the same land before rice being planted, 100 ducats; watered meadows, 200 ducats; woods, 100 ducats; gardens, 400 ducats. Estates pay 5 per cent.

ECCLESIASTICAL STATE.—Bologna.—Landlords are paid by half produce, which affords them about 11. 6s. 5d. per tornatura, of half an English acre, and as much is left for the farmer: this is about 51. 5s. an acre, gross produce, on an average; but it is in the rich plain only. Through all the country, and including good, bad, and indifferent, it varies from 8s. 9d. to 26s. 5d. the tornatura, for the landlord's share. The price for such land as yields the latter sum, is 211. 17s. 6d. English, the tornatura: in general from 81. 15s. to 131. 2s. 6d. The return for the value of land is 4 to 5 per cent. on the capital, but in farms on the mountains, 7 per cent.

Tuscany.—Florence.—The landlord's half of the produce, for all farms are let a la metà, is about 3 livres nett (2s. 1½d.) per stiora on the plain (11s. 8¼d. per English acre †); it is 2 livres on the hills (7s. 8¼d. per acre), and 1 livre on the mountains. No other proof is wanted of the poor state of agriculture in this country, arifing, doubtless, from so wretched a mode of letting land. What must it have been before the time of Leopold, who has done so much towards the annihilation of its old shackles?

Villamagna.—Three poderi, containing 200 stiori cultivated, and 283 of mountain wood, would sell at 12,000 scudi (3400i.); and per stiora for the whole, 71. each: it also yields a rent by metaying of 500 scudi; and land is commonly sold to pay 3½ per cent. interest; but more commonly in other parts only 3.

DUTCHY OF MODENA.—Modena.—The biolca, which is here the measure of land, is twenty nine French toises by twenty-six, or seven hundred and fifty sour; or to the English acre as 27,144 is to 38,300; or as 15 to 21. This measure of arable sells from 500 livres to 1200 livres—the livre half that of Milan, or about 4d.; 800 would be 18l. an acre. Watered meadow sells at 1200 livres to 3000 livres; the latter equals 70l. an acre. Such are mown thrice; the first cutting yields one carro of 100 poid, or 2500lb. (the pound about 4ths of an English pound); and the price of hay 3 to 4 zecchini per carro.

PARMA.—The best land sells commonly at 50 zecchini the biolca (31l. 7s. per acre). To Firenzuola, the best sells at 25 to 40 zecchini.

PIEDMONT.—Vogara.—From St. Giovanni to Vogara, the price of the best is 500 livres the journal. After that town, 24 scudi di Milano per tavola (about 201. to 251. per acre). From Vogara, to within a few miles of Turin, the average value of land is 500 livres (261. 13s. per English acre).

SAVOY.—At Montmelian, vineyards fet at 1000 livres to 1200 livres the journal, which about equals a French arpent. On the mountain fides to Chamberry, on a foil, to appearance absolutely stones, that yield good wine, and fell as high as meadow. Cultivated land at Modena, in the Haut-Savoy, at 1000 livres. Improved mountain spots, 300 livres to 500 livres.

The most careless examination of the preceding prices will be sufficient to shew, that land is sold at present in Lombardy, some ages after it has lost both its commerce and its ma-

[•] Mr. Paucton makes it more than an arpent of France, 1.0866. How he proves this, I am not arithmetician enough to know.

[†] This at the ratio of 51 fliori per acre.

nufactures *, at prices that ought to mark the direct influence of immense industry; for it riles from 30l. to 100l. an acre, through a territory not comparable for foil naturally to many others. I will venture to affert, that the same land in England, would not sell for half, perhaps not for one third of the money. And it is worthy of remark, that the cities which possess most trade at present, as Leghorn, Genoa, and Venice, have little influence on the lands which fell at the prices here noted." It is not the competition of Venetian merchants that raifes the prices on the terra firma; and what have those of Leghorn and Genoa to do with the Milauese and Piedmont? If Leghorn has not cultivated the Maremma, how was it to water the Lodizan? Bologna is perhaps the most manufacturing town in Lombardy; but has it drained the Commachio? If you recur not to present, but to ancient wealth, you must turn to Florence ?, Pisa, Genoa, and Venice; the two first are in one of the worst cultivated countries in Italy: of Genoa I know nothing but by reading; but I have read no author that speaks of great cultivation in the Ligurian territory, free from fmall present proprietors: and let it be remem-bered, because it is a circumstance that merits it, that great commerce and fabrics, especially when depending on a city that governs a territory, have a direct tendency not to establish, but to annihilate such properties.

The effect of great wealth flowing from industry, is to extirpate little properties by the profits from trade being invested in their purchase; one country gentleman, with half a score farmers, and a hundred labourers, takes the place in countries, where the progress of wealth is in its natural course, of a number of little proprietors, who eat up all their produce, and yet are half starving for want. Is this the cate in the Genoese territory?

I am fure it is not at Venice.

The furest proof of the want of disseminating wealth in the country, is the almost univerfal practice of cultivating the land by metayers; if trade and commerce did much for Italy, which cannot be doubted, you must look for their effects, not in the country, but in towns. Those cities that possessed much industry (which I have named), carry fure proofs of former prosperity: go out of their gates, and you meet with none—from what did this arise? Probably from those cities being sovereign ones, and shackling the country with every species of monopoly, in favour of themselves. What is it therefore that will diffuse wealth through all the classes, and give verdure to the fields, as well as lustre to the towns? An equitable governm. Whatever we possess in England, we owe to this origin; and it highly deferves in that it is not a cultivation superior to that of other countries, which diffinguishes our island so much, as the establishment of a race of men generally found no where elfe; a fubitantial and wealthy race of tenantry; a race found in every corner of England: in Lombardy, you must go for such, not to Florence and Genoa, but to the Lodizan.

Every one knows, that, firidly socaking, there are both trade and manufactures in all parts of Lombardy; converting raw to organized filk, is certainly a manufacture; and making a few velvets at Genoa, or glass beads at Venice, are manufactures; but, for all the purposes of argument, Lombardy; when compared to such countries as England and France, must be said to be almost destitute of them.

Supra la Tolcana, op. i. p. 348.

A most singular law passed during the republic of Florence, that no man should make proof of nobility, who was not able to deduce it from the manufacture of wool or silk. Carsi, tomo v. p. 335. A more

commercial idea conleno where root itself.

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louis d'o Coni .-The foil perfectly before; clods bro the plou are now trenches, by a line and force inferior t ordinary but not i and the practifed

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Raccon nant plan pratenfe. To Tu

watered, great fkil water off conclude England brought rying the nience of general in a wall fide behi

[†] For the immense manusactures and wealth of Florence in the sourteenth century, see Ginvanni Villani, lib. ii. eap. 93. "In Fireway le Bosteghe (anno 1330) dell'arte della lana erano dugento e più e saccevano da sittanta in ottanta nula panni seli valuta di più di mille dugento migliaja ai ssonii d'ero (sono à seudi fiorentini 22,860,000) che bene il termo e più rimaneva nella terra per overaggio sinve il quadagno de langivoli: "Del detto evreggio vivevano più di 30,000 personne. Se per tutti i prodotti e manisatture dell'intera Toscana presentemente non cutra più di un milione due contomila seudi; chiaro è, che tempo sa la sola atte della lana in Fitenze produceva venti volte più utile di quello, che presentemente ne saccia tutto lo stato. Carli Saggio Sepra la Toscana; op. i. p. 348.

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CHAP. XXXII .- Of the Management of Grass Lands.

CATTLE and grass lands are so connected, that I trust, it will not be deemed an impropriety to treat of them in the same chapter, and as parts of the same subject. The observations I have made in Italy will be divided easily into 1, irrigation—2, live stock.

SECT. I .- Of Irrigation.

IF there be one circumstance which gives a superiority to Lombardy, over all the other countries I have seen, it is this, and therefore merits the most particular detail.

PIEDMONT.—Nice.—Such is the consequence of water here, that a garden of four festaradi (a square of twelve trebucchi, i. e. 144 is a sestarada, and 400 trebucchi a giornata, which is to the English acre as 0.7440 is to 0.7929) with a small house, lets at 20 louis d'or per annum, or about 151 an acre.

Coni.—For the last ten miles from Nice to Coni, the country improves continually. The foil near the mountains is stoney, but is a good sandy loam lower in the vale. It is perfectly level, and watered with the utmost attention, in a manner I had not noticed before; not as in Spain, in beds, but the field is ploughed slat, sown with wheat, the clods broken with hoes and bush-harrowed, and then great deep trenches struck with the plough, for letting in the water; these are eight to twelve yards assunder. They are now (September) watering clover eight inches high, by letting the water into these trenches, and conducting it in a singular manner. A man walking backwards, draws by a line a bunch of straw and weeds, just large enough to stop the water in the trench, and force it to overslow on each side. This is an expensive and operose method, and inferior to the Spanish. The crops now on the ground are maiz, good, but not extraordinary; millet; and a little hemp, the male plants picked. A great deal of clover, but not much that is clean. But meadow abounds, which is the glory of Picdmont; and the conducting of the water in multiplying conduits, seems well understood, and practised in great perfection.

Coni to Chentale.—In the watered meadows, much chicorium intybus and plantago lanceolata. Watered meadows are cut thrice commonly; but in fome feafons four times.

Racconis.—The watered meadows are now mowing for a third time; the predominant plants—the chicorium intybus, plantago lanceolata, acchillea millefolium, and trifolium pratenfe.

To Turin.—From Coni to Turin, fomething more than half the country appears to be watered, possibly two-thirds, and wherever the water is carried, it is apparently with great skill. It is however rather singular, that more trenches are not cut for taking the water off the land; the attention is chiefly paid to bringing it on; from which we may conclude, either that the heat of the climate renders such drains less necessary than in England—or that water is too valuable from every one understanding its use, to be brought on in the least supersluous quantity. The contrivance towards Turin, for carrying the aqueducts of irrigation across the roads, are beautifully executed: for convenience of distribution, the water-course is raised three or four feet, or more, above the general level: these aqueducts are brought to the side of the road, and scenningly sinish in a wall, but really fink in a syphon of masonry under the road, and rise on the other side behind another similar wall. Seeing these buttresses of masonry, without perceiving

first any water, I wondered for a moment to what use they could be assigned; but when I mounted the foot-way, this beautiful contrivance was at once apparent. These are noble exertions.

Turin.—The irrigation in all this vicinity is extensive, and carried to great perfection. Water is measured with as much accuracy as wine. An hour per week is fold, and the fee fimple of the water is attended to with the same solicitude, as that of the land. Rich meadows without water fell for 1000 livres and 1100 livres a giornata; and arable worth 500 livres without water, is in many instances worth 2000 livres with it. Such a meadow as will fell for 1100 livres or 1200 livres per giornata, will yield the first mowing 115 rubbii of hay, worth of to 10s. the rubbio, the second 90 rubbii, at 7s. to 8s. and the third, 80 rubbii, at 6f. to 7f.; the fourth growth is fold to be eaten by sheep, at 5 livres. This produce amounts to 120 livres, or 6l. English per giornata, which is under an acre. The interest of 1100 livres being at 40 livres or 50 livres, there remains a fufficient profit, after all expences are paid. During the winter, as the meadows are commonly fed with sheep, they do not water at all. Some experienced cultivators avoid water in the spring, till the frosts are over, which happen here as late as the 10th, and even the 15th of May, as a strong fresh vegitation is in such cases entirely cut off; but in general no attention is paid to this circumstance, and watering goes on at all times except when sheep are on the ground. Those who have water enough, let it on to their land once a week during the whole fummer; but if the weather is wet, once a fortnight; and a day or two before cutting, if the water is perfectly clear. In regard to the quality of water, they make no other diffinction than that from mountains being cold, and that of the Dora, near Turin, being charged with fo much fand as to be bad. They attend to the cutting of weeds in the canals that they may rot; and some good managers harrow the bottoms in the fpring to foul the water, which then acts more powerfully as a manure. Another practice, which tends also to prove what excellent farmers they are in all that respects meadow grounds, is that of paring and burning, which they perform on pieces that have a bad herbage, or want of improvement; but do not fow them with corn or any other plant, except hay-feeds, in order to renew the grafs, with no other interruption. It is impossible to praise such practices too much. They call this husbandry motara.

The power of effecting the great works in irrigation, which are visible over this whole country, depends very much on the law, which supposes the right and property of all rivers to be vested in the king; consequently all canals taken from them, are bought of him, and this enfures another regulation, which is the power of carrying the water, when bought, at the pleasure of those who buy it, where they think fit; they cannot however cut acrofs any man's ground without paying him for the land and the damage; but the law does this by regulations known to every one, and no individual is allowed a negative upon a measure which is for the general good. The purchasers of water from the king, are usually confiderable land owners, or communities that have lands wanting water, and it is of no consequence at what distance these lands may be from the river whence the water is taken, as they have a right to conduct it where they choose, provided they do not cut through a garden or pleasure ground. Nor can they carry the water under that of others, whose canals are already made, as they might in that case deprive them of part of their water; they are obliged to throw aqueducts over fuch canals. The benefit of water is fo great and well underflood, that nobody ever thinks of making objections; and in case their lands are not already watered, it is no small advantage to have a new canal brought through them, as they have the opportunity of buying water of the proprietors. It is fold per hour per week, and even half an hour,

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and down to a quarter. The common price of an hour per week for ever, is 1500 livres. At Gruliascho, four miles from Turin, there are many Persian wheels that lift up the water by buckets; the wheels are double, with washers between for the stream turning them; the buckets or boxes on one outside only; they raise the water eight or ten feet, and about two and a half short of the full diameter of the wheel, and I could not perceive that they lofe a drop; none falls except what adheres to the wheel itself. To fave the expence of multiplying fluices, for the occasional stoppage of water, in carrier trenches, to force it over the land they have a moveable board that fits the trench, which is placed occasionally where wanted, and answers the purpose well. They have none of the ramifications of carrier trenches common amongus; and not fo many drains for taking the water off as with us; and, on the whole, do not shew any thing like our attention in the use of the water, though twenty, or rather a hundred times more in bringing it from rivers, and distributing it about the country; and I could not but obferve that their meadows have much bad herbage, and many places damaged by the water resting too long; this is more the case here than it seemed to be from Coni to Racconis, where the meadows carried a better countenance.

Turin to Chivasco.—Not one-third of this country is watered. At Chivasco but little also. After crossing the Dora Belta, there are soon two considerable canals of irrigation; one made two years ago only, which is as great a work as a navigation in Frederic

Ciglione.—Little land watered in this country; but I observed here some meadows, with off-channels from the principal ones, for conducting the water, which I did not notice before; but very sew drains. The new canal crosses a gravelly waste, but none of it watered.

Trouchan .- A very rich country much watered; and many mulberries.

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St. Germano.—Mowing the third crop of grass, and very poor; not more than fifteen cwt. an acre, and yet watered. The glory of Piedmont is from Coni to Turin. Those who pass Mont Cenis to Turin, and Turin to Milan, see, on comparison, nothing.

Vercelli.—The new canal now making, for taking water from the Dora Belta, and conducting it to the rice grounds of Vercelli, is done by the king, and will cost three millions; the water is fold to communities. The other I crossed near the Dora, at the same time, was made long ago, and belongs to the Marquis de Bourg.

MILANESE. — Buffalora. — After croffing the Tesino, in several branches, and entering the Milanese, we find a great system of watering meadows to Bustalora, where that magnificent canal, the Navillio Grande is twenty yards broad, and though navigable, was originally made for irrigation alone.

St. Pictro Olmo.—Hence, for some distance, there is no watering; but then there is something in our Berkshire method; the lands are arched up, and just in the centre, on their crown, are the carrier trenches for conducting the water, and on each side a row of low fallows; some of these lands are two rods broad, and two feet higher in the ridge than in the surrow; the land sirm and the herbage good: wherever the meadows seem good, there is abundance of chicorium intybus, plantageo lanceolata, and trisolium pratense.

Milan.—As the irrigation of the Milanese is perhaps the greatest exertion of the kind that ever was in the world, and certainly the first that was undertaken in Europe, after the decline of the Roman empire; it merits every attention that a farming traveller can give; for it will be sound, by very briefly recurring to records, which have been searched, that great exertions (perhaps as great as ever known) were made in this country, at a period when all the north of Europe was in a state of barbarism. In the year 1037, mention

mention is made of the canal Vecchiabbia. In 1067, watered meadows were common, called prate roce, by Landolfo *. In 1077, there are notes of many streams used. In 1138, the monks of Chiarevalle bought of Giovanni Villano fome commons, woods, and meadows for 81 livres under the contract (a parchment yet remaining) "ut monasterium possit ex Vectabia trahere lectum ubi ipsum monasterium voluerit et si fuerit opus liceat facere cidem monasterio fossata super terram ipsius Johannis ab una parte viæ et ab alia-&c. possit firmare et habere clusam in prato ipsius Johannis, &c." There is a similar contract of the following year, and various others, until the beginning of the thirteenth century; from which, and others, it appears that the Vecchiabbia was the entire property of the monaftery, and confirmed in 1276 by the diploma of the Emperor Frederick II. The merit of these monks appears to have been great, for they gained such a reputation for their skill and industry, that they had many applications for assistance in directing works fimilar to their own upon uncultivated lands; and the Imperial Chancellor Rinaldo, in the time of the Emperor Frederick I. being appointed archbishop of Cologne, found the possessions of his see in such a deplorable state, that he applied for, and found the same affistance as reported by Cefarior Eisterbacense. Their greatest exertions were in irrigation, which was fo well known, that they fold their fuperfluous water, transferring the use and property of some by the hour, day, and week. In two centuries they came to be possessed of fixty thousand pertiche, mostly watered: there is reason to believe that the practice in the thirteenth century did not materially differ from the prefent modes; because, in the papers of the archives of the abbey of that period, mention is made of chiuse, incastri, bochilli, soratoi t, and other works, to distribute the water, and regulate the irrigation 1. In 1164, the Emperor Frederic gave various rights, in certain rivers, to the people of Pavia, for the purposes of irrigation §. In 1177, the people of Milan enlarged and continued the Navillio Grande, from Abbiate Graffo to Milan, being fourteen miles; it was brought from the Tesino, near the Lago Maggiore, to Abbiate Grasfo, twenty miles, by the people of Pavia, long before the date of any records now known to remain | In 1271, it was made navigable. It is thirty-two Italian miles long, and twenty-five bracchi wide, or forty nine English feet ¶.

The fecond great work, was the canal called Muzza, which takes the waters of the Adda, at Cassano, and carries them to Marignano, there dividing and watering much of the Lodizan. It was executed in 1220 **, and done in so admirable a style, that Padre Frisi, in the preface to Modo di regolare i fiumi, &c. says,—"il meccanismo d'irrigar le campagne è stato ridotto all'ultimo grado di macstria e di persezione nel canale di Muzza ††." And Padre Antonio Lecchi, another great engineer and mathematician, remarks,—"De'nostri trè celebri canali di Muzza, e de'due navigli qual altra memoria ci rimane ora, se non se quella del tempo della loro construzione, e d'altre poche notizie, niente concernenti al maraviglioso artissizio della loro condotta \tau."

In 1305, the canal of Treviglio was made, which takes the water from the Brembo, and carries it for feveral miles, about twenty-five feet wide, and about three deep; it ir-

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^{*} Guilini, tom. iv. p. 122. 224, 225.

⁺ Chiuse, are suices; incastri, are water gates that are moved perpendicularly; bochilli, openings in the banks to distribute water; foratoi, discharges for carrying off superfluous water; the same as scarkatori.

[†] Memoire Storica ed Economica sull'Irrigazione de Prati. Don. Ang. Fumagalli Atti di Miluno, tom. ii. p. 215.

Guilini, tom. vi. p. 330.

[|] Nueva Raccolla d'Autoriche trattano det moto dell'Acque. Parma. 1768. 4to. Tom. vii. p. Prifi. p. 97. | Ibid. p. 98. ** Verti, Storia di M. t. i. p. 240. †† Nueva Raccolla, tom. vii.

^{11 1}b. Piano, Ge. de tre torrenti, p. 141.

rigates the territory of Triviglio and the Ghiara d'Adda: And, within four or five miles, there are five canals, taken from the Adda and the Brembo, all of great antiquity. In 1460, the canal de Martesano was begun, under Duke Francis Sforza I.; it was twenty-four miles long, and eighteen braccia (thirty-five English feet) wide; since lengthened seven or eight miles more. It takes the waters of the Adda, a little before Trezzo, by means of a powerful wear (chiuse) founded upon the living rock; it is then supported for five miles by a folid wall of stone, forty braccia (eighty feet) above the bottom of the Adda, and parallel with it. At Gorgonzola, it passes over the torrent Molgora, by a bridge of three stone arches. At Carlenzago, it is crossed by the river Lambro, which enters and quits the canal with all its floods. And in order to prevent the furplus of water, which this circumstance occasions, from breaking the banks of the canal, or overflowing them, there are nineteen scaricatori in the canal, above, below, and facing the junction, which are so calculated that they have not only powers sufficient to take off the waters of that river, but also half of those of the canal itself. These scaricatori are canals which take the water, when fluice-gates are opened for that purpose, and convey it at various distances to the Lambro again; the fall in its course being considerable enough to free the canal from all fuperfluity of water. Near Milan, this Navillio receives the torrent Seveso; and, after surrounding the city, unites with the Navillio The fluices which Bellidor supposed to be invented by the Grande and the Olona. Dutch were used for the first time near Padua, in 1481, by two engineers of Viterbo, Dionifius and Peter Domenico, brothers *. Leonardo da Vinci profited immediately of this great invention, for the union of the two canals of Milan; and finding between them the difference of the levels to be eighteen braccia +, he with fix fluices, in the year 1497, under Ludovico il Moro, opened and facilitated the navigation from one to the other. The greatest scaricatori t of the waters united at Milan, is the canal of Vecchiabbia, which, after having ferved fome mills and irrigation, falls into the Lambro near Marignano; and if this canal were made straight, and supported by some sluices, the navigation might be continued to the Lambro, and thence to the Po and the fea. Both thefe canals, the Grande and the Martesano, are so contrived as to be completely emptied once a year, for cleaning and repairing whatever accidents may have happened to any of the works.

I have entered into this digression upon a very curious subject, little known in English literature §, in order to shew how well irrigation was understood, and how admirably it was practised, when the countries on this side of the Alps were barbarous. At the same time, however, that justice is thus done to these great exertions, we must bear in mind that few districts in Europe are better, or so well situated for irrigation. The lakes of Maggiore and Como, nearly upon the same level, are three hundred feet (one

^{*} Moto dell' Acque, vol. v. Parma, 1766, p. 349. Mentioned by Zendrini in the tenth chapter, Sorra PAcqua Corrente. This is the common supposition in Lombardy, and is thus recorded; but it appears to be an error, by a passage in Guilini, tom. xii. p. 332, where, anno 1420, mention is expressly made of them, machinarum quas conchas appellant, &c.

[†] P. 98. Frif.

† The feariesteri are what I believe we call wears in England; they are discharges of superstituous waters. Mr. Brindley made them in the Duke of Bridgewater's canal, circular, and in the centre of the river, to convey the water as into a well; but in Italy they are cuts or openings in the banks of the canal, at places that allow a quick conveyance of the water; for instance, where a canal crosses the bed of a river; their powers are calculated with such a mathematical exactness, proportioned to the quantity of water brought into the canals by the rivers joining them, that no shoods ever effect the surface, which is of an equal height.

§ One would naturally look for some knowledge of these sacts in "Anderson's Deduction of Commerce;"

but we shall look in vain-

hundred and fifty braccia) higher than Milan, - and that of Lugano two hundred feet

higher than those, with a nearly regular declivity to the Po.

There are authors who have afferted, that agriculture is improved in consequence of great trade or mansactures only; but the instance of the immense irrigation in the Milanese, effected by these and many other canals, too numerous to mention, will not allow of such a conclusion being general; and to shew that my opinion is not without foundation, a very brief review of the state of Milan, so far as it respects these periods, will

not be displeasing to a reflecting reader.

In 1177, when the canal de Navillio Grande was made, the republic of Milan had been gradually forming for about two hundred years †; but these dominions were exceedingly confined;—Lodi, Pavia, Mantua, Verona, Crema, Tortona, Como, Bergamo, Brescia, Piacenza, Parma, Genova, Asti, Vercelli, Novara, Cremona, Ivrea, Padua, Alba, Treviso, Aquileia, Ferrara, Reggio, Modena, Bologna, Imola, Cesena, Forli, Rimini, Fano, and Ancona,—were at that time independent republics ‡; which united against Milan, in 1162, with the Emperor Frederick I. and besieged and destroyed it. This singular sact that in sisteen years after one of the most signal destructions that could be brought upon a city, there should be sound energy enough in a petty republic, to undertake a work which is in the present age regarded as an honour to Lombardy must be admitted as a proof, that the trade and manusactures of that period could have been but very inconsiderable.

Milan, however, unquestionably arose to great power and prosperity; and our business is to inquire into that period, whence we may judge how much its commerce might

influence the perfection to which she has carried agriculture.

1042, Civil war; the nobility driven out by the people. 1056, The government changed.

1067, Meadows watered. Guilini, iv. 122.

1108, War with Pavia.

1111, Lodi destroyed by Milan.

1127, Como destroyed by Milan. 1153, Frederick Barbarossa interposes.

1162, Milan taken and destroyed.

1167, The people of Milan living in tents and cabins. To,

1183, War with Frederick. The total of

1177, Navillio Grande continued to Milan.

1191, Grant of waters to Pavia, for irrigation, by the Emperor Henry VI.

1204, The nobility expelled.

1210, The archbishop's revenue 80,000 siorini d'oro, equal to ten millions of livres now.

1216, A woollen manufacture.

1220, The canal of the Muzza made.

1221, The archbishop and nobles expelled.

1237, War against the Emperor Frederick II.

1240, Government reduced to pay in paper money; the origin of all that has passed fince in Europe.

1257, The nobility expelled.

The Navillio Grande begun to be made navigable.

1277 1281, 1288, 1296, 1305, 1310, 1327, 1332, 1350-

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[·] Verri, Storia di Milano. 1:83. tom. i. p. 5. + Storia di Milano. p. Verri. 4to. 1783. tom. i. p. 142.

[‡] Verri, tomo i. p. 175.

- 2263, Factions of the Guelphs and Ghibellines now in full activity at Milan.
- 1271; The Navillio Grande navigable.
- 1277, Givil war ;-Toriani and Visconti.
- 1281, Ditto. 1 4 4 11 1
- 1288, Milan buys wool from France, Flanders, and England
- 1296, Decree, that gave to every one the power of conducting water across all great
- 1302, Revolution;—the Toriani get the better of the Visconti.
- 1305, Canal of Treviglio made.
- 1310, Revolution; the Visconti prevail.
- 1 327, Violent factions of the Guelphs and Ghibellines.
- 1332, Grant of water for irrigation to the people of Treviglio.
- 1350-1385, Tyranny of the Visconti drives away the manufactures.
- 1395, Great power of Milan over the cities of Lombardy .
 - Through every part of the fourteenth century, the passages in the Annals are numerous, which prove how well irrigation was understood, and how highly canals of water were valued.
- 1421, Milan exports cloths to Venice †.
- 1457, Most of the conquests of Milan lost.
- 1460, Canal de Martelano made.
- 1481, Sluices invented at Padua.
- 1497, Leonardo da Vinci joins the canals at Milan.

It should seem from this detail that the exertions in irrigation were almost purely agricultural; the benefit enjoyed by the people of Pavia, from the Navillio Grande, was a constant proof of the advantages to be derived from similar canals; and they were executed at moments which will not allow us to attribute them to the influence of manufacturing or commercial wealth.

To this may be added, that during the 13th and 14th centuries, Italywas the perpetual fcene of bloody wars; the Venetians and Genoese, the Venetians and the Milanese, and, in their turns, the other republics feem to have had no other business than that of cutting each other's throats. A perpetual state of warfare, and so many revolutions as were taking

^{*} In 1378, Giovanni Galeazzo Visconti Conte di Virtu was declared Duke of Milan, his dominiona then comprising Arezzo, Reggio, Parma, Piacenza, Cremona, Ludi, Crema, Bergamo, Brescia, Verona, Vicenza, Feltro, Belluno, Bastino, Bormio, Como, Novara, Alessandria. Tortona, Vercelli, Pontremoli, Bobbio, Sarzana, Pavia, Valenza, Casali, Padua, Alba, Asti, Bologna, Pisa, Siena, Perugia, Nocera, Spoleto, and Assis. Verti. p. 417.

leto, and Affif. Verti. p. 417.

† Asthis woollen manufacture is faid to have been in the hands of an order of friars, the frati umiliati, we have no reason to suppose it an object of great consequence; the expressions feeming to imply its magnitude being applicable to a comparison with poorer neighbours. Count Guilini says, on occasion of its being carried from Milan to Sicily, "the tanto fioriva fra noi," (tom viii p. 585;) but records do not explain the extent; though we are told that they worked up wool from France, Flanders, and England, in 1288 (tom. viii. p. 399;) which trade had existed to some degree of consideration in 1216. Count Verriuses the expression—"slavoro de pannismi la quale formò la ricchenna cospiena di Milano." (Storia di Milano, tom. i. p. 357.) But it was Venice, Genoa, Pisa, Amalsi, and Ancona that had the empire of the sea, which gave that author reason to say, "the tutto il commercio dell'Europa era presso gl'Itoliani." (tom. i.

p. 465.)

† In the preceding periods it was probably worse. Count Verri observes, "Dello state della populazione nel decimo secolo-mi pare veressimile che dovesse essere mediocremente populato Milano. Le terre erano coltivate parte da siberti. Molte parti del ducato era bosco. In qualche luogo, che ora si coltiva sorse, ancora verano delle acque stognanti." Storia di Milano, tom. i. p. 76.

place in the governments of the Italian cities, were little adapted to give a fecurity of possession essentially necessary to the establishment of such manusactures and commerce, as shall by the overslowing of their surplus, ameliorate the agriculture of a country.

It was but fifteen years after the destruction of Milan, that the Navillio Grande was made; and within three years after the loss of all her conquests, that the canal de Martesano was digged: these great undertakings were, therefore, executed at periods when commercial prosperity could least of all effect them. There was no stability in that prosperity. It is also to be remembered, that throughout this period of Milanese history, that people, even at the height of their power, were never masters of a commercial seaport. It is true that they twice took Genoa; first in 1353, but kept it for a very short time; and again in 1421, when they were in possession of it but sourteen years; and amongst all the dominions of Galeazzo Visconti, Sarzano was the only port, and that never a commercial one; thus the fabrics of Milan were obliged to be exported through the Venetian or the Genoese, who laid duties on the transport of their commodities.

The conclusion of the whole seems fairly to be, that we are not to attribute the irrigation of the country to wealth derived from foreign commerce; the fertility and excellent management of the lands supported a great population, which proved as industrious as public calamities and confusions would allow; but it does not appear that this

industry was ever continued through a long series of peace and happiness.

Another idea has been started, that Lombardy owed her irrigations to the effect of the crusades: that the mad enthusialts who went upon those expeditions, brought home with them the art of cutting canals, for this most beneficial purpose; but history does not give fufficient lights to allow of this conclusion. I have already remarked that the Navillio Grande was made by the people of Pavia, long before those of Milan made the cut to that city; and fo long before, that no records in the archives were found of it by that most industrious searcher into antiquity, Count Guilini. This fact seems nearly decifive, for the first crusade did not commence till 1096, nor terminate till 1100, before which period there is every reason to suppose the canal in question was cut, as the refearches of Guilini go fo far back as 773. The crusades ended in 1291; and had the effects been as great as possible, yet they cannot be imagined to have taken place immediately; it must be, after much consultation and long reasoning, that whole towns could be brought to co-operate in the execution of fuch plans for the common good, from mere reports of the effect in distant countries and different climates. Another circumstance, tending to prove that irrigation in Lombardy was much more antient than the crusades, is that Theodoric, who began to reign in Italy, anno 493, publicly rewarded an African who had come thither in order to instruct the Italians in the art of irrigating lands, as Mr. Professor Symonds has explained, with his usual elegance, in his most agreeable paper on the effect of water in the agriculture of Italy . Now if this art had been thus introduced, or more properly speaking, revived in Italy above fix hundred years before the crufades were thought of, there cannot be much reason for attributing that improvement to the observations of those frantic enthusialts. It is remarkable that Count Verri, in his History of Milan, says, he had long conceived that their irrigations were to be ascribed to the Crusades; but from paying more attention to the authorities quoted by Count Guilini, he gave up that opinion, and concurred in the idea

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^{*} Annals of Agriculture, vol. i. p. 421.

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of a greater antiquity*: for which also P. Frisi seems to contend, when he says expressly that the canal made by the people of Pavia was more antient than 1177 †.

And here it may be worth remarking, that Pavia was the capital and refidence of Theodoric, whence there refults, at leaft, a prefumption, if he fent to Africa for a perfon to instruct the Italians in irrigation, that here was the field of his exertions, and that this very canal was the work of that fovereign, not the less celebrated for thus laudably applying himself in a barbarous age to works that would do honour to the politest. But to return from this long digression.

The same law that has been so effectual in watering Piedmont, operates here also, and has done even greater things. He who discovers a spring, conducts it where he pleases, paying a fixed compensation † for cutting through the properties of others. All rivers belong, as in Piedmont, to the sovereign, who sells the waters to speculators for this most beneficial purpose of irrigation. In the distribution of it by sale, they do not measure by the hour, as in Piedmont, but by the ounce; twelve ounces are a braccio, or twenty-two inches: an ounce of water is a stream that runs one braccio long and one ounce deep; and the farther the water has run, the higher is the price as being more charged with manure.

As an example of the beneficial influence of this law, I was shewn between Milan and Pavia, a spring that was discovered two miles from the lands of the discoverer, the properties of many persons lying between him and the spring. He first bought the property of the person in whose land it was situated, which was easily done, as it was too low to be there of any use; then he conducted it by a trench at pleasure the two miles, paying the fixed price for cutting through his neighbours lands; and, having gained it upon his own, presently changed poor hungry arable gravel into a very sine watered meadow.

Near Milan a watered meadow fells at 800 livres the pertica (321. 158. the English acre;) and the rent of such is about 30 livres (11. 58. the English acre.) This must not, however, be classed high; for there are lands that rise to 4000 livres, (1631. the English acre.) In land at 800 livres or 1009 livres, water often makes half of the value; that is, the rent to the owner of the land will be 15 livres to 20 livres, and as much to some other person for the water.

In viewing a great farm fix or feven miles from Milan, in the road to Pavia, I found that all the watered meadow was mown four times; and that what was watered in winter, prati di mercita, five times. Such is the value of water here, that this farm, which watered is rented at 20 livres the pertica, would not let at more than 6 livres without water, the foil being gravel. The irrigation of the mercita begins in October, and lafts till March, when it is regulated like all other meadows. All in general begin in April, and laft till September; and if there be no rain once in feven to fifteen days. An

[.] Storie di Milano, tomo i. p. 354.

[†] Con tutte queno però, se imparzial mente si vorrà avere rignardo al tempo, alle circonstanze, alla maestria del lavoro, il naviglio di A ilano che forma la communicazione del Testuo, e dell'Adda, potrà passare per il capo d'opera, che abbiamo in questo genere. Per quanto dice il Sigonio nel libro 1, del regno d'Italia all'anno 1179, pare che il primo tronco de lo sesso viviglio, del Testuo ad Albiate Grasso, sosse già dai tempi più antichi incominciato e finito dai pavesti per irrigare le vicine loro compagne. Fiu nell'anno 1176 che i Milanost condustero lo stesso da Abbinie a Corsico, e a Milano. Nuova Raccolta, vol. iii. p. 97.

[†] These laws, relative to the conduct of irrigation, are as old as the republic of Milan; first compiled into a collection of statutes and customs in 1216. (Verri p. 239) They were revised and collected by order of Charles V. and are in full force to this day. Conditationes Dominii Mediolanensis Decretic et Senatus Consulti. Gab. Verri. Folio, 1747. De aquis et fluminibus, p. 168.

ounce of water running continually from the 24th of March to the 8th of September, is worth, and will fell for 1000 livres. When arable crops want water, it is always

Milan to Mezzato. - Every confiderable spring that is found becomes the origin of a new canal. They clear out the head for a bason, and fink casks by way of tunnels for the water to rife freely, and without impediment from mud or weeds. There are usually three, four, or five of these tunnels at the bottom of a bason of twenty or thirty yards.

Milan to Ledi. Of all the exertions that I have any where feen in irrigation, they are here by far the greatest. The canals are not only more numerous, more incessant, and without interruption, but are conducted with the most attention, skill, and expense. There is, for most of the way, one canal on each side of the road, and sometimes two. Crofs ones are thrown over these on arches, and pass in trunks of brick or stone under the road. A very confiderable one, after paffing for feveral miles by the fide of the highway, finks under it, and also under two other canals, carried in stone troughs eight feet wide; and at the same place under a smaller that is conducted in wood. The variety of directions in which the water is carried, the cafe with which it flows in contrary directions, the obstacles which are overcome are objects of admiration. The expance thus employed, in the twenty miles from Milan to Lodi, is immense. There is but little rice, and fome arable, which does not feen under the best management; but the grafs and clover rich and luxuriant; and there are fome great herds of cows to which all this country ought to be applied. I cannot but effect the twenty miles as affording one of the most curious and valuable prospects in the power of a farmer to view; we have fome undertakings in England that are meritorious, but they fink to nothing in comparison with these great and truly noble works. It is one of the rides which I wish those to take, who think that every thing is to be seen in England.

Ledi. - Examining feine watered meadows in high estimation, I found the following plants most predominant, and in the order in which I note them :-- 1, Ranunculus repens; 2, Trifolium pratenfe; 3, Chicorium intybus; 4, Plantago lanceolata; 5, Achillea millefolium *; and about one-fifth of the whole herbage at bottom feeins what are properly called graffes. These rich meadows about Lodi are all intersected by ditches, without hedges, but a double row of pollard poplars; all on a dead level, and no drains to be seen. They are now (October) cutting the grass and weeds in the ditches, to cart home for making dung. The meadows are commonly cut thrice; but the belt four times. The produce of hay per pertica, fix faffi of one hundred pounds, of twentyeight ounces at the three cuts. Price of the first, 8 livres per fals; of the second, 5 livres; of the third, 45 livres. They water immediately after clearing if there be no rain. Without irrigation, the rant of the country in general would be only one-third of of what it is at prefert. In forming these watered meadows they have very singular customs: - all are broken up in rotation; flax fown for the first crop, and their way of laying down is to leave a wheat stubble to clothe itself; clover is prohibited by lease, from an abfurd notion that it exhaults the land; and that it is not fo good as what the nature of the ground gives; but on worfe land, the other fide of the Adda, they fow

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There appeared but few figus of ray-grafs, yet it certainly abounds in fome of their fields: opinions in Lombardy differ concerning it; Sig. Scannagatta practes it highly (Atti di Milano, tom. ii. p. 1143) but one of the best writers in their language, Sig. Lavezari (10m. i. p. 82.) wonders rather at the commendations given of it in other countries, he midakes the French name, it is not fainfoin; the hjeffa of Lombardy, and the ray-graft of England, is the lolium terenne; the French fainfoin is the hedyfarum onolyachis.

^{*} As we Lambro ent Alberoni hi but fatal in the mischie tom.vi. p. 5 May 1159, with his arra Ferrara, G

Lodi to Codogno.—All this country the fame as about Lodi, a dead level, cut into bits of from three to ten acres, by ditches, without hedges, and planted with double rows of poplars and willows, all young, for they are cut as foon as the fize is that of a thin man: here and there one is left to run up to timber. I remarked, in the meadows fed, that the ranunculus is avoided by the cows as much as pollible. I expected in one meadow to find it the acris, but much of it was the repens. All this country is alternately in tillage; ridge and furrow every where: no permanent meadow. After feven miles, the road being natural, flews the foil to be a loamy fand, binding with rains *.

Codogno.—Thirteen pertiche of watered land necessary for a cow, the hay of which is cut thrice and it is sed once; such land sells at 300 livres, and lets at to livres, free from tax. The whole country is ploughed by turns, being down to clover for the cows four years.—1. Flax, and then millet; 2. maize; 3. wheat and clover; and rests then for feeding cows; white clover comes, but it is bad for cheese. The reader will note, that this opinion differs from that near Milan.

Codegno to Crema. Croffing the Adda, from the Lodizan, there is more arable, and much fewer cows.

Milan to Vaprio.—In this line there are fome dairies, but not many. Near the city there is much grafs, all cut into patch-work of divisions, and planted so as to seem a wood of willows; after that much tillage, though all is flat, and there are no great exertions in watering. But the road passes by that sine navigable canal de Martesano from Milan, which at Vapprio is suspended as it were against the hill, twenty feet above the

Adda—a noble spectacle. Before we quit the Milanefe, it will be proper to make a general remark on the conduct of their irrigation, that fome evils are observed to attend the practice for want of a better forefight and more attention; particularly from the gradual enlargement of the carrier canals and ditches; they clean them with fo much care, for the fake of obtaining the mud, as a manure, that thefe are every where become too wide for the quantity of water they convey. Sig. Bignami has written upon this point very rationally, in his differtation Suli' abufo di feavare i canali delle roggie ed i fojji nel Lodigiano; where he afferts that one tenth part of their lands is occupied by canals and ditches. are numerous, it is not only a confiderable lofs of land, but it is an equal lofs of water, for when an oncio of a given run of water is purchased, there is a great difference between its fir t fitting a great or a fmall channel, as in proportion to the fize will be the quantity of useless study. The atmosphere is also proportionably contaminated, for this great breadth either of flagnant water, when irrigation is not actually going on, or, what is worfe, of mud, in fo hot a climate, must be pestiferous; and to this have been attributed the diftempers which have frequently made fuch havoc among their cattle. Another inconvenience is, the great expence of all erections, bridges, fluices, &c. &c. which are in proportion to the breadth of the channels. The remedy is obvious, it is to forbear all cleanfing for the fake of mud; to let all aquatic weeds, and other plants,

As well watered as this country is, yet in the fpring 1779 the feafon was fo day, that where the Lambro enters the Po, men and women croffed the Po iffelf on foot, as if merely a rivatet; the rector of Alberoni himfelf passed it, and the water reached only to his middle. The damage was great everywhere but fatal in the Lodizan, where herds of cows were obliged to be fent out of the country to be pallured; the mischief the greater, as from 1774 to 1779 they had augmented their cows 5000. (Opyson Sechi, tom.vi. p. 56.) The climate has, however, in all ages, been subject to great droughts. From May 1158, to May 1159, there fell no rain in Lombardy 1 wells and springs all dried up. The Emperor passed the Adigo, with his array, near Verona, without boats 1 and the Count Palatine of Bava ia p sted thus the Po, below Ferrara. Gialini, tom. vi. p. 175.

grow freely on the banks, edges, and fides of the canals, and to clear them in the middle only. Such a conduct would in time quite choak them up, and enable the farmer to keep his canals exactly to their right width. All these plants covering the spaces, which in canals often cleaned, are bare earth or mud, would be very beneficial towards preventing and decomposing that noxious, and mephitic, and inflammable gas, always iffuing from such mud, which is so pestilential to animals, yet so falutiferous to plants; for mud covered with plants that are ready to feed on its exhalations, is much less mischievous than that which is exposed to the rays of a burning sun. Count Carlo Bettoni, of Brescia*, has practised a method which acts on similar principles; namely, that of burying or fixing willows or poplars to the sides of the rivers whose banks he wanted to preserve, with the precaution only of keeping the ends of the branches out of water; he finds that they grow vigourously in this situation, and by stopping the mud of the current, form a folid bank; this, on a small scale, might certainly be executed: also in the canals of irrigation, as it has been remarked, by the author already quoted, in the Atti di Milano.

VENETIAN STATE.—Vaprio to Bergamo.—There is a mixture of watered meadow in this line, but the quantity is not confiderable. In some which are old, I sound a good sprinkling of trifolium repens, chicorium intybus, and plantago lanceolata; but also much ranunculus and rubbish. In the plain close to Bergamo, they clean the irrigation-ditches at the end of November, and harrowing them with a faggot, to thicken the water, let it immediately on to their meadows, which is said to enrich them much.

To Brescia.—The Venetian State, thus far, is a confiderable falling off from the Milanese, in respect to irrigation; the country is not without canals, but neither the number nor the importance of them is to be compared to those of Milan. From Coquillio to

Brescia there are many channels, yet the lands are not half watered.

Brefcia to Verona.—The road passes for some distance by a very fine canal, yet the quantity of watered land in this route is but inconsiderable. Before we arrive at Lago di Guarda, there are a sew meadows never ploughed, that have a good appearance, but none from the lake to Verona. On the whole, these forty miles, for want of more irrigation, are not comparable to the Milanese or to Piedmont. This route so much to the north, gives the traveller an opportunity of seeing a chain of considerable cities, and of observing the effects of one of the most celebrated governments that has existed; but a

better direction by me would have been by Cremona and Mantua.

Verona.—The meadows here are cut thrice, and fed once; are never ploughed, if good and well watered. Water for irrigation here, as in all Lombardy, is measured with great care and attention, by what is called the quadrata, which is a square foot (the Veronese foot is to the English about as twenty are to twelve). Twelve quadrate are sufficient to water five hundred campi of rice grounds (about three hundred and eighty English acres), and the price of such a quantity of water is commonly about 5000 zecchini (1425]. Sterling). The wheels in this city for raising water for irrigating the gardens are very complete; they receive the water as in Spain, into hollow sellies. There is one in the garden of the Daniele monastry for watering about sour campi, which are said to yield a revenue of 300 zecchini; which is 100 zecchini, of 9s. 6d. per English acre. The wheel raises the water about twenty-sive seet, receiving its motion by the stream; a low wall, crossing the garden, conveys the water in a trench of masonry on its tops; and a walk passing along the centre of the garden, the wall there is open to admit the path, the water finking in a syphon, and rising on the other side to the same

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[·] Henfieri sul Govern. de Fiumi. Brescia, 1782.

height, passes again along the wall, in the same manner as canals are carrried under roads in Piedmont, &c. The wheel has double fellies, for giving water on both sides ato troughs, which unite in the same receiver, and the wallers for giving the motion are placed between the fellies. The whole apparatus complete, cost three hundred zecchini.

To Vicenza.—There are in this tract of country fome perennial meadows watered, quite upon a level, which have a very good afpect: the existence of such should make us question the propriety of the Lodizan system of ploughing, where water is so regularly at command.

Padua.—'The country from Vicenza to this city, is not watered like many other diftricts of Lombardy. The practice is very well known; and there are rice-grounds about Padua, but not nearly the use made of water which is found in the Milanese; yet the rivers in the Venetian state belong to the prince, as well as in other parts of Italy, and water is consequently to be bought: but there is not the same right to conduct it at will, and consequently the water itself might almost as well not exist.

To Venice.—In this tract I saw no irrigation, though the whole is very low, and quite

Venice.—The fame admirable law that takes place in the Milanefe, for enabling every man to conduct water where he pleafes, is found in the Venetian state also, contrary to my information at Padua; but so many forms are necessary, and the person who attempts it must fight his way through so much expensive litigation, that it is a dead letter, and nothing done in consequence. I was farther told, that it is a principle of the Venetian code, that not only all rivers, but even springs, and rain itself, belongs to the Prince: an idea worthy of this stern and tyrannical government.

ECCLESIASTICAL STATE. - Bologna. - I faw no watered lands.

Tuscany.—I saw no irrigation in Tuscany; and from the intelligence I received, have reason to believe, that the quantity is not considerable; some meadows, however, are watered after mowing. The best methods I heard of, are about Poggio, Caiana, Villa Sovrana, ten miles from Florence.

DUTCHY OF MODENA.—The quantity of irrigated land in the Modenese, is but finall; it does not amount to more than fix biolche in eighty, nor have they more than fifteen perpetual water-mills in the whole territory. From Modena to Reggio, there is a fprinkling of these meadows, the canals for which, taken from the Lecchia, are not large; all, whether watered or not, are manuring with black well rotted compost, and have a very neat countenance.

DUTCHY OF PARMA.—The country from Reggio to Parma is not without watering, but the quantity is inconfiderable; there is, in this line of country, a great inferiority to that from Modena to Reggio, not the fame neatnefs nor attention in any respect; there are mole-casts in the meadows, a thing unseen before; and though there are much cattle and sheep, yet the features of the husbandry are worse. From Parma to Firenzuola, not an hundredth part of the country irrigated, yet there is a good deal of grass, and in some places in large pieces.

Predmont.—Parcele, &c.—For some miles in the Sardinian territories, there are a good many meadows, but very sew watered. I passed two small channels of irrigation, but the quantity was inconsiderable. If a map of these countries be examined, there is the appearance of many rivers descending from the Appenines, and falling into the Po, but the use made of them is small. It is remarkable that all the way by Tortona, Alexandria, &c. to Turin, the quantity of irrigation, till almost close to the last mentioned city, is quite inconsiderable, not one acre perhaps in a thousand. What an idea can be

framed of Piedmont, by those who pass through it from Mont Cenis, and quit it for Milan or Tortona, without seeing it from Turin to Coni?

Savoy. - In the mountains of the Alps, by Lanesburgh, &c. they mow their watered

meadows once only, but in the plain twice.

From this detail of the irrigation of Lombardy, it must be apparent, that for want of laws fimilar to those which take place fully in Piedmont, and the Milanese, and partially in the republic of Venice, no fuch exertions are ever likely to be made in a free country. We can in England form no navigation, or road, or make any trespass on private property, without the horrible expensive form of an act of parliament; we cannot even inclose our own property, without the same ceremony. Nor is it only the expence of fuch applications, but the necessity of them generates opposition at every step, and a man must fight his way through country meetings, through attorneys, agents, counsel, wit. neffes, and litigation,—in a manner odious to every liberal feeling, and at a ruinous expence, before he is at liberty to improve his own estate, without any detriment to others; every idea of fuch works, therefore in England, as we have feen common in Lombardy, is vifionary and impracticable; and we must continue to view, with eyes of envy and admiration, the noble exertions which have been made and perfected in that country, and which, in truth, very much exceed any thing we have to exhibit in any walk of agriculture in this island:—an example to hold up for imitation, and an ample field of practical study.

SECT. II.-Of Cattle.

Ptedmont.—Nice to Coni.—In this part of the Alps, the breed of cows refembles the Alderney, in horn, colour, and fize. They are usually cream-coloured, or pale yellow, but with black around their eyes, black tail, and some of them legs also, like the Poitou breed in France.

Turin. - Price of a plough ox, 150 livres to 300 livres. A good cow, 110 livres.

The method of fattening in the plain, the cattle called moggie, from the mountains of Suza and Buffolino, as given by the Agrarian Society, deferves attention. They begin by putting them in airy stables, healthy, and well lighted, bleed once or twice, anoint the bodies of the cattle, dress them well at least twice a day, give water mixed with ryeflour, in the evening feed with a certain mixture called condut, composed of elm leaves, with some hay of the second or third cut, or clover-hay, to which they join a mess of well-pulverized walnut-oil-cake, on this mixture they pour some boiling water, well falted, and stir up the whole together, and mixing at the same time an eymena of brau, according to the number of moggie; the pap, thus prepared, is turned into a tub, and some h urs after it is given to the cattle, who cat it with an avidity that marks a delicious sood; continuing this method some time, they cast their hair, grow smooth, round, fat, and so improved, as to sell frequently at double the price *.

MILANESE. — Milan. — Examining the ox-stalls of a farmer near the city, I found his standings 6½ feet wide, and made almost like my own at Bradsield, except that instead of a step and gutter, he has a trench at their heels, in the Dutch method. I thought the house too close and hot, yet there were air-holes, but all stopped, the farmer saying that a cow gives more milk for being kept hot, but in summer the sheds are open and quite cool. They begin to work their oxen at four years old, and continue till ten, sometimes till twelve, but after ten they do not fatten so kindly. They all draw, as in

· Memorie della Società Agraria, vol. i. p. 73.

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Piedmont, by the withers; fine ones fell at 30 louis the pair. A pair will draw four thousand pounds of hay, each pound twenty-eight ounces, on a waggon that weighs one thousand pounds more, with wheels not three feet high, and wooden axles. Four thousand pounds at twenty-eight ounces Milanese, are fix thousand seven hundred and seventy-seven pounds, at fixteen ounces English; and three tons being only six thousand seven hundred and twenty pounds, this is a considerable load in such a vehicle, and should imply no bad method of drawing, yet I cannot like it so well as by the shoulders. They are never shod, except on stoney hills.

This farmer fattens his oxen in winter with lintfeed cake, giving five pounds or fix pounds a day to each beaft, and as much hay as they will eat; the best for them, that of meadows not watered. When it is scarce, they substitute forage of maiz, sown thick for mowing, and this hay they cut in a chass-box, to the length of one or two inches.

But the great object in the vicinity of Milan, as well as in the Lodizan, &c. is a dairy; I viewed feveral confiderable ones, from four to feven miles from the city, and had my inquiries very fatisfactorily answered. Some of the particulars deserve noting, for I should remark, that all the dairies of the Milanese are very famous, and sew produce cheese that is not fold under the general name of Parmesan. They buy in about the end of October, Swiss heisers, with calf, generally at two years and a half old, under contract, that if they do not calve, or do not give milk from sour teats, the bargain is void: the price on an average, 13½ louis. They keep so long as till sisten years old, or so long as they breed. Till the age of six years, the milk augments annually, but afterwards diminishes. They are sold lean at 15 to 36 crowns each, 6 livres (at 8d.) The best two or three cows in a dairy of forty or sifty, will give thirty-two bocali of milk per diem; but in common, twenty-sour, or eighteen English quarts. The cows are mossly of a dark brindled red colour, with small horns *; and it deserves noting, that the best made cow in fifty-sive, quasi fattening, was the best milker.

In respect to cheese, a dairy of sifty-sive, which I viewed, make three hundred and twenty in a year, at forty pounds on an average, or twelve thousand eight hundred pounds, or two hundred and thirty-two pounds per cow (three hundred and eighty pounds English), at 90 livres per one hundred pound; in all per cow in cheese, 7l. 10s. English. The butter amounts to twelve pounds to every cheese of forty pounds, at 26s. per pound: three thousand eight hundred and forty pounds, which at 26s. are 4992 livres (166l. 8s. English, or per cow, 3l.) Thocalf, at eight or fifteen days, fells at 72 livres per one hundred pounds nett, and being weighed alive, twenty-eight pounds per one hundred pounds is the deduction. I do not clearly understand this note, on revision, but as veal at Milan is about the same price as in England, I shall call the calf 10s. To fifty-sive cows, seven sows and a boar are kept, which breed forty hogs that are reared; twenty sold in spring, and twenty in autumn, average 1½ louis each; in all for hogs, 60l. English.

Recapitulation, per cow.—Cheefe,

Butter,

Calf,
Hogs,

Butter,

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VOL. IV.

[•] It is remarked by an Italian writer, that in chufing cattle, the horns must not be overlooked; the larger these are, the worse. The Swifs cows that are reputed the best, have small horns; and on the contrary, those of Sardinia, that are poor milkers, have very long ones. Element D' Agricolura di Mitterpacher, tomo ii. p. 257, notes.

The account of a dairy taken next door to me, in Suffolk, is complex, and such as not one man in twenty keeps accounts particular enough to ascertain; it may therefore be easily supposed, that greater difficulties occur in a foreign country, through the medium, not only of a different language, but of different manners and customs. This account was given partly as an actual one of fifty-five cows, and partly by calculation; but in such a number of cows, there will be some dry; there will not be fifty-five colves fold from fifty-five cows; hogs must, for such a produce, have some corn given them, though not much; and I should consider this estimate rather as what a good cow ought to do, barring accidents and exceptions, than as a fair average of a large number.

The expences, however, are high, as well as the produce; among others, there are the following to this dairy of fifty-five:

				liv.
Chief dairy-man, the cazaro	-Wages,	-		130
•	Five moggii of maize, at 20 liv	rcs,	-	100
	One ditto wheat, at 34 livres,	-	-	34
	Half ditto rye, at 18 livres,	-	-	- 9
	One ditto of white rice,			44
	One hog, of 1 olb. at 15/.	•	-	90
	Lodging, fuel, falt, and butter,			,-
The under dairy-man, fotto caze		•	-	127
2 1.0 2.1.2.2 4.1 / 1.1.2 / 1.1.2	Board in the farmer's hou	fe.		/
	Three men, at 70 livres ea			210
			_	
	3½ moggii maiz, at 10½ li	vres,	-	210
	½ ditto rye, at 3½ livres,	-	-	63
	4 ditto rice, at 24 livres,	-	•	99
	½ ditto mullet, 1½ livres at	18 livres,	-	27
	Towards board, 20 livres,	-	•	60
	Land enough for their flan			
	Two children, for the hog		res.	60
	Five faggots per diem, a			
	rive laggots per them, a	it 5 miles	the 100	
	4 livres if large,	-	•	60
				1323

Here are above 44l. English, without knowing at what to calculate the three other articles; probably they would raise it to above 20s. a cow. There is likewise the wear and tear of the dairy implements, falt, oil, and many finall articles; befides hazard, and the loss by difference between the sale of old cows and the purchase of young. In regard to the management of the cows, they eat in winter, that is, from the middle of December to the end of March, nothing but hay, and the allowance is twenty one pounds of twenty-eight ounces, each cow per diem; this is 2184 pounds of Milan, or 3559 pounds English, or about 11 ton. This fingle article of expence, without any other confideration, would make a very great produce necessary, or the farmer could not live. They milk at break of day, and fometimes before it; in the evening, two hours before funfet: the quantity most in the morning. The best cheese is made when the cows feed on white clover, which comes of itself the second year, where red clover was sown, which occasions a vulgar notion here, that red clover changes into white. This second year's white clover is better than perennial meadows for cheefe. For one fortnight in a year, they foil their cows,—the last half of March,—and the grass goes thrice as far as when cumftane night; the reft for this v as withou year, and hay, but rule, whe gular a pof milkir

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place, ne the prece feventeen folved in known th to the mi off the fir common (70 Fahr ing, as th examined it, which ture; thi done in I grain as f is nearly over the of finely machine, his finger nefs of g 44 (131) orders h has taker mand the

* This cenza were

as when eaten in the field; yet they never do it at any other feafon. The most singular circumstance is that of their stalling their cows to empty racks most of the day, and all the night; they are turned out at eight or nine in the morning for three or four hours, and all the rest of the twenty-four they have nothing. I inquired particularly into the motives for this very extraordinary practice, and was affured it was necessary to make good cheese, as without it the milk would not have the requilite richness. During fome feafons of the year, and in very wet or bad times, they give them during this fast, a small quantity of hay, but the practice is confined to such times, and is an exception from the general rule, which is decidedly that the cows must not eat grass at pleasure. It is so very singular a practice, as certainly to deserve experiment in England. The French practice of milking thrice a day, is quite unknown.

The method of making the cheefe known in England by the name of Parmefan, because the city of Parma was once the entrepot * for it, was an object I wished to underfland as well as possible. The idea is, that all depends on foil, climate, and irrigation; and the boasted account that the Kings of Spain and Naples, in order to make similar cheese in their territories, at least for their own tables, had procured men of skill from the Milanese for this purpose,—contribute to give a readiness every where in answering questions, as they are all very well persuaded, that such cheese can be made no where

elfe.

In order that I might view the process to the best advantage, the Abbate Amoretti conducted me to the dairy in question, belonging to the house of Leti. It is, in the first place, necessary to observe, that the cheeses are made entirely of skimmed milk; that of the preceding evening mixed with the morning's milk; the former had flood fixteen or feventeen hours, the latter about fix hours. The rennet is formed into balls, and diftolved in the hand in the milk; the preparation is made a fecret of, but it is generally known that the stomach of the calf is dressed with spices and salt. The rennet was put to the milk at twelve o'clock, not in a tub, but in the cauldron or boiler, turned from off the fire-place at ten o'clock; the heat 22 degrees of Reaumur's thermometer, and common to 24 degrees (813 Fahrenheit's), the atmosphere being at the same time 162 (70 Fahrenheit's). In fummer, the whole operation is finished by eight in the morning, as the heat fours the milk if in the middle of the day. At one o'clock the cazaro examined the coagulation, and finding it complete, he ordered his fotto cazaro to work it, which he did, with a flick armed with cross wires, as described in Annals of Agriculture; this operation is, instead of cutting and breaking the curd, in the manner it is done in England, free from the whey. When he has reduced it to fuch a firmness of grain as fatisfies the cazaro, it is left to fubfide, till the curd being quite funk, the whey is nearly clear on the furface; then the cauldron which contains it, is turned back again over the fire-hearth, and a quick fire made, to give it the feald rapidly; a fmall quantity of finely powdered faffron added, the fotto cazaro ftirring it all the time with a wired machine, to keep it from burning; the cazaro examined it from time to time, between his fingers and thumb, to mark the moment when the right degree of folidity and firmness of grain is attained. The heat was 41 degrees (124; Fahrenheit), but it is often 44 (1314 Fahrenheit). When the cazaro finds it well granulated by the fealding, he orders his deputy to turn it off the fire, and as foon as a certain degree of fubfidence has taken place, empties about three-fourths of the whey, in order the better to command the curd. He then pours three or four gallons of cold water around the bottom

^{*} This is the general opinion, but a lete writer has shown that it is an error, and that Parma and Placenza were ence the country in which the best was made.

of the cauldron, to cool it enough for handling the curd; then he bends himfelf into the vessel in a formidable manner to view it, resting his feet against the tub of whey, and with his hands loofens the curd at bottom, and works it into one mass, should it not be fo already, that it may lie conveniently for him to slide the cloth under it, which he does with much apparent dexterity, so as to inclose the whole in one mass; to enable himself to hoist it out the easier, he returns in the whey, and taking out the curd, rests it for ten minutes or a quarter of an hour in a tub to drain. The vat, in the mean time, is prepared in a broad hoop of willow, with a cord round to tighten it, and widens or contracts at pleafure, according to the fize of the cheefe. Into this vat the curd is fixed, and the cloth folded over it at top, and tucked in around. This is placed on a table, flightly inclining, to carry off the whey that drains from the cheefe; a round plank, three inches thick, shod with iron like the block-wheel of a barrow, is laid on the cheefe, and a stone about thrice the fize of a man's head on that, which is all the press The cheefe of the preceding day was in a hoop used, and there ends the operation. without any cloth, and many others falting in different hoops, for thirty or forty days, according to the feafon, - thirty in fummer, and forty in winter. When done, they are feraped clean, and after that rubbed and turned in the magazine every day, and rubbed with a little lintfeed oil on the coats, to be preferved from infects of all forts. They are never fold till fix months old, and the price go livres the one hundred pounds of twentyeight ounces.

The morning's butter-milk is then added to the whey, and heated, and a stronger acid used, for a fresh coagulation to make whey-cheese, called here masco-pino. Little ones are kept in wooden cases, in the smoke of the chimney.

Upon this detail, I am to remark, that the rules that govern the operation of making cheefe in the Milanese seem to be very different from those which are attended to in England. These are marked distinctions.

I. Starving the cows during fo large a portion of the day.

II. Breaking and fealding the curd.

III. Light preffing.

The mode of feeding which these farmers pursue, they think essential to good cheese; and that if the cows were allowed to passure all day long, it would be difficult, perhaps impossible, to make cheese of equal goodness. It would be idle to reason upon a proposition, which demands in other countries experiment alone.

The breaking of the curd and scalding is absolutely different from ours, and apparently a method infinitely superior; our breaking by the hand, and cutting into cubes and other ways, are gross, and render it difficult for the scalding whey to operate equally; but in the Italian method it is broken minutely, and by keeping the heating whey constantly stirring, the scald is equal throughout, and operating on the minutely divided curd, must take a more regular and a greater effect. I described to the cazaro the method used in England, and asked his opinion, on which he replied—Il vostro formagio in quel medo non poul effere troppo bnona: come è la grana? By referring to the grain of the cheese, it is plain be thought that the texture of it demanded this way of operating.

In regard to prefing, all with whom I converfed were much against any very heavy weights, and seemed of opinion, that a good cheese might be pressed into a bad one. Firmness, weight, and folidity, they contended, should arise from the right fabric of the cheese, and from adapting the sabric to the land and to the season, but never from much pressing, which would be a bad way of remedying either evils or mistakes. Hoved cheeses are very rare with them, which may possibly proceed not only from the grant-

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lation given by their method of scalding, but also from their moderate pressing. However it must not be imagined that the excellency and peculiarity of Parmesan cheese depend altogether upon the fabrication; their own idea is probably very just, that foil, climate, and irrigation come in for their share; and that the abundance of certain plants has an influence; but this last cause will not have much stress laid on it, since clovers are found to be the chief plants.

I shall not quit this most interesting district, without recommending it strenuously to those who would wish to give themselves a completely good farming education. For such a purpose Codogno would be a proper station; for it is surrounded by great dairies, and contains the largest magazines of cheese of any town in Lombardy; the consequence of which is a regular intercourse with all the dairy masters of the Lodizan. Much useful knowledge might here be gained in irrigation, and in making cheese.

The oxen of this dairy farm begin to work at four years old; and are fold at eleven or twelve years old, from 9 to 12 louis each. A pair will plow eight pertiche a day; and draw, waggen included, three thousand pounds, of twenty-eight ounces,

twenty miles.

Mozzata.—They practife a fingular method of fattening oxen here. They put chopped straw, a little hay, the leaves of maiz, and also some flour of it, into a tub, and pour in hot (not boiling) water; and as they give this soup to the beast, they add for each a handful of oil-cake in powder, or for want of that, of elm leaves in powder; oak leaves they give green. Another food in use is powdered acorns, which is given instead

of oil-cake, and with good fuccefs.

Lodi.—The cows here are generally of a blood red colour, long, lank, and ill made. In a dairy of ninety, they make for one hundred and fixty days, one cheefe a day, of fixty pounds; but in April and May it is of feventy pounds. After St. Martin, the beginning of November, greater, but not every day; in feven months, one hundred and ninety cheefes; and in the reft of the year one hundred and feventy; in all, three hundred and fixty; this is two hundred and forty pounds per cow. In feeding, they give the cows nothing from four in the afternoon till nine the next morning, unless the weather be very bad, and then a little hay. In making the cheefe I found very little variation in the practice from that already described. For the coagulation, or what our dairy wives call fetting, they heat the milk gradually, and take care not to do it too much at once. In the great heats of fummer they fet it without heating and even put ice or fnow (with which every dairy is provided) to cool it; but they do not confider the heat at fetting to be a point of much confequence, as a little more or lefs heat makes no difference. The curd is broken exactly as described before, with two machines, one of wood only, the other armed with fine wires, and the faffron added during that operation. Scald it as at Milan, and, upon doing this with skill, they affert, that much depends; as by more or less scalding they can remedy certain deficiencies in soils and plants. The rest of the operation is just as already described, and all the utensils the same; the weight something less than at Milan; and here as great enemies to much pressing. The cheefe made yesterday is all honey-combed in the coat, and as yellow as wax, a pale yellow: whereas at Milan the new cheefes are quite white. Thefe honey-combs wear out by feraping after falting, which is for thirty-fix or forty days; they are then coloured, and there is given to them an appearance of a whitish crust, or efflorescence artificially. They are preserved by oiling, as at Milan. Good cows give about five gallons of milk per diem; the best of all, fix. Sixty cows require one hundred pertiche for fix months in fummer.

Codogne.

Codogno.—The produce per cow is here reckoned at one hundred pounds of cheefe*, at twenty-eight ounces, at 22½ f. per pound, and eighty pounds of butter at 24f. The calf fells at 20 livres, at fifteen days old; and the produce of hogs, twelve fows to one hundred cows, which pay about 10 livres per cow.

	Milanefe.			Sterling.							
100 lb. 80 lb. b Calf, Hogs,	cheefe utter,	e, at 2	2] /.	•	liv. 112 96 20	<i>f</i> . 10 0 0			-	£. 3 3 15 3 4 0 13 0 6	0
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Thirteen pertiche of land are necessary to carry a cow through the year, which they cut for hay thrice, and feed once. Such land bought, fells at 300 livres, and lets at 10 livres. The greatest dairy in the country, one hundred and ten cows, and the price 10 louis each. In summer they milk at four o'clock in the morning, and at sun-set. Make the cheese at eleven in the forenoon; in winter at any time. Skim all the milk, and never set it for coagulation without heating it by sire. In other respects, the manufacture is conducted as already described. They colour the coats with earth, and the whitish efflorescence is given with rye-meal. When the grass is oldest, it always gives the best cheese, but the produce, after being down four years, declines so much, that the almost general practice is to plough it.

View the magazine of cheese at Codogno, of Sig. Bignami, and of Sig. Stabilini;—the latter are immense. Most of it is sold in Italy, much in Spain, and least of all in France; there is not a solid cheese in that kingdom that is catable, and yet they consume

little Parmefan!

Codogno to Crema.—Messrs. Bignami had the goodness to condust me to a great farm, two miles from Codogno, in the way to Crema;—here I found that coagulation takes, according to the season, from one to four hours; in some parts of the Milanese the cazaro informed me that they set the milk without warming: here never; always heat it by fire. The caggio (rennet) is in balls about twice as large as a pigeon's egg, put in a linen coarse cloth, and rubbed, holding it in the milk, till it is dissolved. In this dairy after three hours coagulation, the milk was as hot as if fresh from the cow. Quantity of sastron, a quarter of an ounce to a cheese of fixty pounds—945 pounds of milk, of twenty-eight ounces, make a cheese of fixty pounds weighed fix months after. The same quantity of milk in spring and in autumn, makes more cheese than in summer. Best-and most from old grass, but a cazaro who really understands his business, will make all alike; and the idea here is that fabrication is all in all. A cheese of thirty pounds will be as good as one of a hundred pounds. The scalding in their manner is

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^{*} This is the general idea; but let it be noted, that the particulars of two dairies I took, one of which was near Milan, were different; one two hundred and thirty-two pounds per cow; the other near Lodi, two hundred and forty pounds per cow; yet there is, near Milan, a notion, that the produce is one hundred pounds per cow. The difference, probably, is this, that upon a general calculation of all the cows of a difficient, bad, and indifferent, dry, and giving milk, the quantity is one hundred pounds, but in certain capital dairies, and reckoning only the cows in milk it is more than double.

[•] Carli † It m in all my i

to granulate the curd, and, united with fo fmall a preffure, leaves cavities in the texture of the cheefe, that fill with an oleaginous liquid, and form the peculiar excellence of Parmefan cheefe. With the methods used in England, such cavities spoil a cheefe. I must, however, remark that such Parmesan as was common many years ago, in which these cavities, and their contents were of a texture that would allow of drawing out like a thread of glue, is not fo common now. The folid cheefe, without cavities, common at present, is not much better than our North Wiltshire, and is apt to dry much fooner, if equally kept. Quare, if this declention of quality is not to be imputed to their ploughing all the country? When their cheefe gained its great reputation, it was made from old meadows; now all is from arable land. Here it is kept five or fix years never till ten. Walking with the farmer, the master of eighty cows, into his fields (1750 pertiche), I begged him to pick the plants in the order of his estimation for cheefe, which he did; -first, trifolium repens; second, trifolium pratense and plantage lanceolata equal; third, chicorium intybus. Thefe he esteemed capital. The ranunculus repens had; all the graffes, properly fo called, bad, on comparison with those above; but lolium perenne the best, if it come naturally; bad, if fown. Gallega officinalis bad. They fornetimes do not fow any thing to make a meadow, leaving the wheat-stubble to cover itself: a barbarous practice, fince they confess that in the first year it yields little. There were dung-hills in most of the fields, well mixed and rotten, to be spread in winter. Feed the cows, in winter, only with hay, and twenty pounds, of twenty-eight ounces, the daily allowance; the price now 71 livres per one hundred pounds. I forgot to remark, that all the milk trays are of copper; and that ice is in every dairy, to put into the churns with the cream. The cows are here fed, as every where elfe in the Milancfe, but a few hours in twenty-four; yet longer than in fome districts, for they are abroad feven hours; they eat nothing while tied up in the sheds.

In 1733, there were in the Lodizan one hundred and ninety-feven dairies: in 1767 there were two hundred and thirty-fix, each of which had one hundred and twenty cows, on an average, making two hundred and ninety cheefes each dairy per ann.; in thirty-four years increase—thirty-nine dairies, four thousand fix hundred and eighty cows, eleven thousand three hundred and ten cheefes, and value 848,210 livres*. This is Count Carli's account, but I suspect an error †, as I heard no hints of any decline; and at Codogno, the dairies were calculated, apparently with attention, at two hundred and thirteen each, making three hundred and ten cheefes in a year, or fixty-fix thousand and thirty cheefes, of fifty pounds each, or 3,301,500 pounds, of twenty-eight ounces, at one livre a pound; this makes 110,0471, and the account I received was, that, of this quantity, two-thirds were exported.

In regard to the origin of this cheefe, it deserves notice, that it is not three centuries since this great advantage of irrigated meadows has been here known; and I may observe, that the Cistersian monk who has written so well—Sull Irrigazioni de Prati, in the Atti della Societa Pat. di Milano, seems to admit, that the original manufactures of Parmesian cheese was in the territory of Parma; and refers to original papers for shewing that Milan was supplied three centuries ago with this cheese from Parma. A clearer proof of this cannot be produced, than that in the ledgers of the monastery of Chiaravalle, there are entries of the purchase of cheese from Parma, which, most assured, could not have taken place, if such cheeses had been made at home. And this seems to be con-

• Carli, tom, i. p. 217.

[†] It must be a gross error to calculate the dairies at one hundred and twenty cows, on an average; for in all my inquiries I heard but of one that reached one hundred and ten.

firmed

firmed by the account of the entry of Louis XII. into Pavia, in 1499, given by Franceico Muralto, juris confulto of Como, who fays,—" Multa fuere per Papienfes dono regi tradita et inter catera formae centum cafei Placentinae civitatis." It is also worth observing, that though they did not make good cheese at this period, (as we may judge, from their buying it elsewhere,) yet some cheese was made at Tecchione, a farm belonging to them, of the weight of sourteen pounds per cheese, as it appears by their ledgers for the year 1494.

Venice.—This city is supplied with beef from Bosnia, Carinthia, Styria, and Hungary: at present the export from those countries is prohibited, on account of supplying the

Emperor's armies in Hungary. Mutton from Dalmatia, and Bofnia.

ECCLESIASTICAL STATE.—Bologna.—In their cow-houses they have the same step at the heels of the beasts as I have in my own, and which I copied from Mr. Bakewell many years ago; but they have applied it to their horse-stables also, which I never met with before; yet it is an obvious improvement, which well deserves imitation. The stoors of their stalls are level.

Tuscany.—Though the quantity of cattle of every kind in this country is much inferior to what it ought to be, yet is the art of fattening an ox well understood. In furnmer they feed on mown clover and faggina (the great millet, balcus forgum); also on maiz, and a mixture of all forts of corn and pulle, called farrana. Price of an ox, 45 feudi (at 5s. 8d.); 'a cow, 30; a sheep, 1; a horse, 20; a hog, 7.

Account of a Dairy of Eight Cows, at Vilamagna, in Tuscany, belonging to Conte Orlando del Benino.

•						Scud.	liv	. <i>[</i> .
Eight cows cost -	•	-	-		_	85	2	်ဝ
Produce, first year, in butter	and n	nilk.		-		83	4	2
Second year, value of the co	ws and	l three ca	lves,		-	92	3	4
Produce.—Calves.	•	-		-		44		15
Milk and butter,	,	•	•	•		78	6	9
						127	3	4
Chcefe,	-	•		•		3	0	4
Value of the cows,	•	•	•		-	84	3	4
						214	6	12
	Ex	pences.					_	
Value of the cows,	•	•		-		. 92	3	4
Dairy man, -		•		-		12	0	0
Bran and Bull,		-			-	· 6	.5	4 [
Saggina and clover fown for	them,		-		•	3		0
Profit, -	•	•		•		100	5	31/2
						214	6	12

^{*} Atti, vol. ii. p. 220, 221.

Which

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Moden 1771: - C four hund and fevent eight thou eleven tho thousand t fand and f in the rest

PARMA

bers from neighbour has not the try gave its defirous of that of the opportunit curd is bro the branch fine wire, a marked al one and a stone used than half th certainly de which is fu mine whet variations; and the co trays here: before mak

Which, on eight cows, is per cow,			Scud.	'liv.	<i>S</i> . 8	.
At 5 livres, 15f. the dollar, and 47d.	a dollar ste	erling	£3	,3.	6	1
Which is per week,	and R. ben	· · · · · · · · · · · · · · · · · · ·	h 1 0	. Aı	3) }

In which experiment almost the whole of this was profit, because no fewer cattle of any other fort were kept; but it must be obvious, that is 3d. a week is, according to our ideas, a very poor return for keeping a cow. I copy this account from Sig. Paoletti, with whom I had the pleafure of conferring personally on agriculture, and who informed me, that at Villamagna they begin to work their oxen at two years and a hall old; they change fome every year; and gain by their improvement, while worked, about 6 fcudi (of 5s. 8d.) the pair, on an average, per annum; buy at 70 fcudi, and fell at 76. Cows

give two fiasce of milk per diem, during eight months; price 4 s. each.

Modena.—Register of all the live-stock in the Dutchy of Modena, taken in June 1771: - Oxen, forty two thousand fix hundred and fifteen; cows fixty-o e thousand four hundred and forty-five; calves of one year, twenty-four thousand one l. ndred and and feventy-two; calves, twenty-one thousand three hundred and twenty-fix; hores, eight thoufand three hundred and thirteen; mules, eight hundred and thirty-fix; affec, eleven thousand five hundred and forty-three; hogs, one hundred and thirt feven thousand three hundred and twenty-fix; sheep, three hundred and twenty-nin thoufand and fifteen; goats, thirty-five thousand five hundred and eighteen. Augustation in the rest of the year; great cattle, twelve thousand; small, thirty-eight thous

PARMA. - Many and great dairies in the Parmela; some to fixty cows, and numbers from twenty to thirty; and those who have a few cows, carry their milk to some neighbouring dairy, and receive cheefes in proportion to the quantity; but this eefe has not the reputation at prefent of being fo good as that of the Lodizan. As this cuntry gave its name to the best cheese in Europe, and once certainly made the best, I was defirous of knowing how far the mode purfued in the manufacture differed here that of the Lodizan: in the dairy of a farmer of the Count de Schaffianatti, I had this opportunity. The apparatus is nearly the fame, except that the flick with which me curd is broken, and which in the Lodizan is armed with crofs wires, is here only a buth, the branches of which are drawn a little together by a string; this is not so effective are fine wire, and is a variation in a point of importance in giving a fine grain. I have remarked already, that the board which in pressing is laid on the vat, is in the Lodizan one and a half or two inches thick; here it is five or fix inches, and heavy; and the ftone used to press it four or five times larger, yet the cheeses here are not often more than half the fixe of the others; this variation in a circumftance that cannot be uneffential certainly deserves notice; if so very light a pressure in the Lodizan is given, the cheese of which is superior to all others, it undoubtedly should lead the farmers of Parma to examine whether the inferiority of their cheefe does not arife wholly or in part from thefe variations; the country, it is true, is not watered to one-tenth of what the Lodizan is, and the cows feed in perennial meadows, instead of the pasturage of arable land. The. trays here are of wood, instead of copper for the milk; and it is skinned, as at Lodi, before making the cheefe. The coagulation is made usually in three quarters of an

hour, if the milk be what they call wholesome, that is, if it have no particular quality that demands a variation, in which case it is coagulated in half an hour: they vary the fealding also; for bad milk they scald with a fierce quick fire, but good is done more gently. In managing the lump of curd, when fettled to the bottom of the boiler, they vary also; they press it with a circular board, fixed at the end of a slick or handle, and then get a milk tray under it, and when they have hoisted it out, they leave it to drain in that tray about half an hour; at Lodi, ten minutes, or at most a quarter of an hour. The common price of the cheefe 30 livres, (21d.) the pefo (twenty-two pounds English). I tasted it at the table of the Count de Schaffianatti, and also at Parma, and the inferiority to the Lodizan is great.

The attention of giving falt to cattle and sheep here, as in every other part of Italy, is regular; they even confider a plenty of falt as fomewhat effential to having proper flocks of those animals, and gave me an instance which is remarkable. In the Coursi di Monchio, a valley in which the bishop is the sovereign, there is no gabelle on falt, and therefore given much more plentifully to cattle and sheep, the consequence is, that the numbers of both are much greater, proportionably to all other circumstances than

in any other district.

SAVOY.—They reckon at Lanelburgh, that three goats are equal to one cow; the price here is 11 livres to 12 livres. At Ifle, in Alface, a good goat fells from 12 livres to 30 livres French, in common 20 livres. Some there are so good that two equal a cow, but at Tour d'Aigues, in Provence, it takes four to equal a cow, the price 10 livres or 12 livres French.

SECT. III .- Of Sheep.

Nice.—I here observed what appeared very singular, a slock of sheep brought down from the mountains to drink the sea-water, which is I suppose to save salt. deners near the town generally keep a few sheep, confined in sties, just as hogs in England, and fed with the offal of the garden. I took a specimen of the wool of one of these stie-fed sheep, more like goat's hair than wool, it sells at 6s. the pound.

Turin.—The price of sheep from 10 livres to 15 livres. The sleece is eight pounds,

at 5/. unwashed.

MILANESE:—Throughout this country I fearcely faw any sheep, and those few bad. VENETIAN STATE. - Bergamo. - Here I met a flock, an ugly breed, large, long, and ill made, without horns, the wool coarfe and hairy, large hanging ears, and their throats swollen almost like wens. They have a fabric of woollen cloth here, but the wool comes from Apulia.

Brescia.—The sleeces here are four and a half pounds, (about two and three quarters. pounds English), and sell at 25 livres to 30 livres per peze, not washed, which is about

is. English the pound.

Verona. - Price 30/. the pound of twelve ounces (1s. the pound English).

To Vicenza.—Meet feveral flocks; all are clipped twice a year, the breed polled, and.

much like those, but not so large, as on the other fide of Verona.

Vicenza.—The forts of sheep known here, are Gentili, which live only in the plain, not being hardy enough to relift the mountain cold; their wool is longer than of the other forts. Tofetti, these resist the cold well; have short wool, clipped twice. Monte Padouana, are of a much greater fize; the fiesh excellent; are clipped twice. Price of wool, 2 livres per pound unwashed (the ounce of Vicenza, twelve to the pound is to the English ounce as 690 is to 480, as I found, by buying an ounce weight there); this price is equal to about 11d. the English pound. It is remarkable, that they here feed

their shee zucca (go wool here 5 livres to twelve ou equals fev Padua.

three pou ECCLE duce, per per annun twice shea fraction). theep in the

TUSCA nines, of a in June, a September or none, pounds, at fleece is th oats, barle Villamog

before. lambs, whi Two hu expence 1

each givin

year, 1 p

breeding e Fifty lan Eighty I Wool, 7 Cheese,

Half to t

Winter f Two hui Paffes, cl F.xpence Pasturing

Half to t Nett pro their sheep in winter, with a mixture, made in a hole in the ground, trodden well in, of zucca (gourds) cut in slices; the mark of grapes, vine-leaves, and green grass. Price of wool here:—Gentili preparata, 6 livres; Gentili non preparata, 5 livres 5/.; Tosetta, 5 livres to 6 livres; Tesino, 2 livres 10/.; Padouana, 4 livres; all by the pound of twelve ounces. The ounce is to that of England, as 690 to 480; the pound therefore equals seventeen ounces English; 54 livres is above 28. 6d: English.

Padua. - Price of sheep about 2 ducats. In common they clip but once a year; fleece

three pounds.

ECCLESIASTICAL STATE.—Bologna.—Price of a good sheep, 14 pauls (7s.) Produce, per sheep, of a flock;—lamb, 4 pauls; wool, 3½; cheese, 4; in all 11½ (5s. 9d.) per annum; half to the proprietor, half to the peasant. The wool three pounds at twice shearing, and at 13 baiocchi the pound (10 baiocchi to the paul, of 6d. less a fraction). It is washed on the back before shearing. There are 25,000 to 30,000

sheep in the Ferrarese.

Tuscany.—Bologna to Florence.—Some flocks of sheep are scattered on the Appenines, of a small and rather pretty hornless breed. Near Florence, they cut the lambs in June, and sell them in September, to those who keep them till March. Price, in September, 10 livres, (7s. 1d.) and in March, for 18 livres (12s. 9d.); there are few, or none, of two or three years old. They clip but once; weight of the sleece four pounds, at 1½ paul per pound; washed before clipping (English weight and money, the sleece is three pounds, at 1s. 1d. per pound). Wethers are in some places fattened on oats, barley, and hay, and sometimes with a few raves.

Villamogna.—Thirty-fix sheep kept on four hundred and eighty-three stiori of land, each giving three pounds of wool (equal to two and a quarter pounds English), at this year, 1½ paul, and last, 1¼ (the paul 5½d.); clipped but once a year, in May, and washed before. Each sheep ½ of a paul in cheefe. Thirty-fix bring, on an average, twenty lambs, which sell, at five or fix weeks, at 4½ pauls; at fix months, 7 or 8 pauls.

Two hundred sheep from the mountains, that pass the winter in the Marcman, the expence 157 scudi, composed of twenty rams, fifty ewe hoggits, one hundred and thirty breeding ewes; fifty lambs kept for stock.

Scud. Liv.

reeding ewes; fifty lambs ke	pt for Hock.			Scud.	Liv.
Fifty lambs for stock,			_	39	2
Eighty lambs fold, —				12	0
Wool, 7 lb. the pair, at 10	fcudi the 100 lb		-	70	. 3
Cheese, 21 lb. to each sheep	, at 6/. per lb.		•	11	ŏ
				132	1
Half to the proprietor,	بيب فينبو	ىن.	-	66-	I
	Expence	•		***************************************	
Winter food in the Marenin	na, —	_		40	0
Two hundred sheep to a she	epherd; 24 stari	of corn for the	winter,	12	0
Paffes, charges, duties regul	ated at 6 fcudi th	e 100 sheep,	-	I 2	o
Expences of travelling, uter	fils, fees, &c.		-	8	ੌ
Pasturing in summer in the	mountains,			- 4	0
				76	0
Half to the proprietor,	-	-	-	38	0
Nett profit to proprietor,	-		-	28	1
Which profit, bein	g on a capital of	157 scudi, is	18 per cent. *	•	

[·] Tramontani Det Accriescimento Del Bestiam e Toscano, 8vo. p. 96.

It is an observation of Sig. Paoletti *, that draining the Maremina, and cultivating it, have lessened the number of sheep in Tuscany considerably: great slocks, before that period, were kept in some mountainous districts in summer, and pastured in the Maremma in winter; but cultivation has changed this. He does not fay that the people of the Maremma have sheep of their own, but observes, that it is a diminution in number. This is fufficient to prove, that the improvements in the Maremma have been on false and vicious principles; for if they had been on just ones, sheep would have been increased instead of lessened.

Sig. Paoletti recommends that all sheep should have one pound of salt in March, and

one in October, which makes them healthy, and to yield more wool †.

Modena. - Wool here fells from 2 livres to 3 livres per pound, washed; equal to 121d. per pound English. There are many sheep in the mountains, but milerable

things; clipped twice a year.

PARMA.—In going to Firenzuola, I examined the wool of a flock, and found it more like the hair of a dog than wool; and all I fee, which are but few, are alike hairy; most of them polled, but fome with horns; not badly made, but feel worfe. These are the flocks whose wool, Mons. de la Lande says, is inestimable!

PIEDMONT.—Pavefer—On entering the King of Sardinia's country, and for many miles, fee little parcels, of from ten to twenty-five, of poor dirty housed sheep, feeding on the young wheat. Afti was formerly famous for wool; -nelli antichi tempi famosa per la fua lane ; but the country contains none at present to support that character.

SAVOY.—Unwashed wool, 10/. the pound of twelve ounces; sleece three pounds to fix pounds; it goes to France or Piedmont. Sheep, 9 livres to 12 livres each. Though cattle and sheep are the great riches of all Savoy, yet no care taken of the breed, and the wool all bad §.

The price of wool, regard being had to that only which is long, coarse, and bad, (but not the worst,) may be stated in Lombardy at is. English, the English pound; such would fell in England, I calculate, at about 7d. or 8d. per pound.

CHAP. XXXIII.—Of the Management of Arable Land.

THE minutes I took, concerning the conduct of arable land, may, for the fake of clearness, be thus divided: - 1. Of the courses of crops. 2. Of seed and product. 3. Of the culture of certain plants. 4. Of implements. 5. Of manures.

SECT. I .- Of the Courses of Crops.

PIEDMONT.—Chentale.—A year of fallow common in five or fix years, during which year the land is never watered, only exposed to the sun. Wheat is sown on fallow; on clover land; always after hemp, because the land is in high order; the same after maize, if well manured; in which case also after millet sown in June, otherwise messin or rye. The fallow for wheat, commonly follows buck-wheat, called here fromentin, or millet. Clover is fown among rye in March, never among wheat. Millet de cottura is fown in June; millet de restuba the end of July, after wheat; and then dung well for hemp.

Giulini, tom. xii. p. 19.

Turin most ex mon; · 8. whea

The y ceffive c Briolo, wants re

Vercel in the ri lent praby the 1 clover.

> MILA reaped. wheat.

Milar 3. rice; it in spri the fame

Alfo, maize; courfe,clover. In the

ary, mo and ther times to Mozz

for forag be found the who mon ma nion ma they avo by mean

Lodiza thrice an fed till 4. millet. 2. millet

Cremo thrice fo in Nover

Carpia the stubl 6. rice;

VENE 2. clover

[·] Pensieri, p. 207. He mentions their being prodigiosamente piu numerose, a century before, p. 221. Penfieri, p. 208.

I may here add a minute on goats; Marquis Cinori introduced the Angora goats into Tufcany, for making camblets, which manufacture has succeeded so well, as to be termed rispettabile manifattura by Pau-Pensieri, p. 220. And it is observed by another writer, that if they are not superior to the antient amblets of Bruffels, they are at least equal to them. Ragionamente fopra Tofcano, p. 167.

Turin.—In some arable land I viewed, a few miles from this capital, the following most extraordinary course was pursued, and was mentioned to me as being not uncommon; it maize; 2. wheat; 3. wheat; 4. wheat; 5. maiz; 6. wheat; 7. wheat; 8. wheat;

The year of maize being confidered as fuch a preparation, as to allow of three fuccessive crops of wheat. The practice however is barbarous. Upon the farm of Sig. Briolo, the following is the course;—1. maize; 2. wheat; 3. rye, and when the land

wants repose, clover is fown upon a fmall part.

Vercelli.—Upon good wheat land;—1. maize; 2. wheat; 3. wheat; 4. ryc. And in the rice grounds;—1. fallow; 2. rice; 3. rice; 4. rice. They have here an excellent practice, and it extends, more or less, over all Piedmont, which is to mow clover by the 10th of May, and to plow the land and plant maize, which succeeds greatly after clover.

MILANESE.—Milan.—The arable lands never repose; but a quick fuccession is reaped. Two crops of bread corn are gained in one year, by sowing maize in July, after wheat.

Milan to Pavia.—The course common in the rice grounds is,—1. rice; 2. rice; 3. rice; 4. fallow, and dung; 5. wheat, clover fown, either with it in autumn, or upon it in spring; the former best; 6. clover; 7. clover; 8. clover; 9. slax, and then millet the same year: and then rice again as above.

Also,—i. wheat; 2. clover; 3. clover; 4. clover; 5. clover; 6. slax, and then maize; 7. wheat, and clover again. Sometimes after flax, coleseed for oil. Another course,—1, 2, 3. clover; 4. maize; 5. rice; 6. rice; 7. rice; 8. sallow; 9. corn and

clover.

In the Pavese.—1. Rye, and then fallowed for, 2. wheat, fown with clover in February, mown with the stubble, and then sed; 3. clover; 4. clover; 5. clover; 6. slax, and then miller; or instead of both maize; 7. wheat; 8. wheat, and lest then some-

times to pasturage under clover.

Mozzata.—A course common here,—1. clover; 2. winter flax; 3. lupines; 4. maize, for forage; 5. coleseed; 6. cabbages; 7. panic; 8. hemp; 9. beans. This course will be found to occupy about twelve pertiche in one hundred, and to pass in succession over the whole, for the benefit of variation. Another,—1. wheat, and millet after; 2. common maize; 3. wheat and millet; 4, common maize; 5. ryc and quarantino; 6. common maize; 7. rye and quarantino; 8. common maize. The affiduity with which they avoid a fallow, deserves attention, and it is here effected, as in the south of France, by means of a plant that is afferted by many to exhaust.

Lodizan.—1. Wheat, fown in October and reaped in June, and the land ploughed thrice and manured for 2. wheat again, and clover, called *spianata agostano*, which is fed till the following spring, but sometimes ploughed the end of autumn; 3. slax; 4. millet. Another course, called coltura maggenga,—1. break up the layer for slax; 2. millet; 3. maize; 4. wheat, the stubble of which remains in spianato agostano.

Cremonefe.—1. Wheat, fown in October, and reaped in June, the stubble ploughed thrice for 2. wheat, upon which sow clover the end of February; 3. clover, ploughed in Navember for 4. flax and then millet a miles in the state of the state of

in November for, 4. flax, and then millet; 5. maize; 6. wheat.

Carpianese.—1. Maize; 2. wheat fown in the spring with clover, which is mown with the stubble, and remains spianata agostana; 3. clover; 4. flax, and then millet; 5. rice; 6. rice; 7. rice.

VENETIAN STATE.—Bergamo.—The land here is constantly cropped,—1. wheat; 2. clover, mown in the spring once, in time for maize; 3. wheat; 4. clover. Also,—
1. clover.

1. clover, or millet; 2. maize; 3. wheat. By which courses they have half or a third

of their land in wheat every year.

Brescia.—1. Wheat, and twenty pounds of clover-seed in March, per jugero,—the clover cut in August with the wheat-stubble, and then pastured, in winter dunged:—2. clover, called this year prate grasso, cut thrice; first in May, called il maggiatice; second in August, called l'ostano; third in September, il navarolo:—3. in March sow stax, which is gathered in June, then plough and sow quarantino, amongst which, at the second hoeing, sow lupines for manure:—4. plough in the lupines, and sow wheat in November, which is reaped in June; cut the stubble ithmediately, and sow lupines or coleseed for manure:—5. plough in October, and sow wheat mixed with rye, reaped in June, and then sow part with quarantino and part with panic:—6. if a crop of coleseed is taken, it is sown amongst the maize whilst growing, which cole is ripe in spring, in time to clear the ground for manuring and sowing the common maize; if cole not sown, remains fallow in winter, and sow melica in spring,—the great millet.

Verona.—Here, as in all other parts of Lombardy, the land is never fallowed,—
1. maize, called grano turco:—2. wheat, and when reaped, millet or cinquantino; this
is the quarintino of the Milanese:—3. barley or oats, and when reaped, some other second crop. Wheat is always sown after maize, and that after barley or oats. No clover
used here, except in rice-lands. In the rice-grounds,—1. wheat, reaped time enough
for a crop of cinquantino; 2. maize; 3. clover; 4. rice, &c. &c. Beans are also sown
instead of maize, and wheat after them, and prepare for wheat much better. On the dry
lands, such as about the Lago di Guarda, &c. no clover, as the land is not good enough.

To Vicenza.—No fallow any where. There is a little clover, and very fine, but the quantity is fmall: all wheat and maize, and fcarcely any thing elfe.

Vicenza.—Wheat is always fown after clover, and cinquantino after wheat; but nothing prepares so well for that crop as beans, so that they are called the mother of wheat, madre della formento. This idea, in Lombardy, is as old as Gallo, who remarks, that wheat succeeds after nothing better than beans, which in graffano maggiormente la terra, che non fa ogni altro legume *; and this he refers to as a custom of the Cremonese and the Mantuans. It is equally true in England; and fuch a combination of authority ought to convince such as yet want conviction, of the utility of beans as a preparation for wheat; more, perhaps, to be depended on than any other preparation whatever. A common course near this city introduced as a variety is,—1. maize; 2. wheat and cinquantino. A farmer cultivated a field during foine years in this course, 1. maize; 2. wheat; 3. clover: and to preclude the necessity of dung, he used only the vanga (spade): for five years his crops were good, but afterwards declined greatly till he could not get even clover. They fow wheat in October, and the clover-feed over it in March, if there is rain; the end of June the wheat is cut, the end of August the clover is mown for hay, and another small crop again in October; here is, therefore, within a year, one crop of wheat and two of clover. The grass is cut again in May, or beginning of the following June; a fecond time in August, and a third growth plowed in for wheat, which is usually a very great crop in this husbandry.

Podua.—On all forts of land the most usual husbandry is, -1. dung for maize; 2. wheat; 3. wheat, and then cinquantino or millet, &c. Clover is sown both in autumn and in spring; if the frost is not very severe, autumn is best, but spring the most re-

cure. It is cut once after the wheat is reaped.

Venice. Sig. Arduino assures me, there is no fallow to be found in any part of the Venetian territory; they have not even a word to express the idea—Panno di riposo, is

Le Venti Giornate dell' Agricoltura. Brefeiu, 1775. 4to, p. 59.

a difference of the two maize of the two farm; a beans as

Bolog 1787, whemp, is course of to mind for hem which of course n dung. We they sow spring, a than hen the tops

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and their out a fall tion for 1 beft for v 2. wheat following and noth At Villan 4. wheat. lix or fev abfurdity biadi, viz millet, fm for fome groffo and year genti

Moden 1. fallow, October, vetches, fr good, and fuccession for wheat more than

The hui 1. beans, toni, for f a different thing, and always means clover, or a state of rest, without any tillage. That gentleman's expression pleased me much,—La jachere è una sciocca pratica in agriculture. The two great points on which the best agriculture of the Venetian state turns, are maize on clover, and wheat on beans. All these plants are equally necessary upon a farm; and there is a peculiarity in clover as a preparation for maize, and equally in beans as preparatory for wheat.

Bologna.—In a very rich field near this city, which I viewed, the course has been, in 1787, wheat, which produced one hundred corbi, or twenty times the seed. In 1788, hemp, five thousand pounds. In 1789, it is now wheat, and perfectly clean. This course of—1. hemp; 2. wheat, is perhaps the most profitable in the world, and brings to mind the noble vale of the Garonne, under the same management. If land will do for hemp they never fallow, but have some fields in the course,—1. fallow; 2. wheat, which ought to be considered as a disgrace to Lombardy. 1. Maize; 2. wheat, is a course not uncommon. On the fallowed lands they sow beans, provided they have dung. Very little clover, preferring senugreek, which is succeeded by wheat. Vetches they sow in autumn, and beans also, both for a crop, and also to plough in, in the spring, as a manure for hemp. With equal quantities of manure, beans give better wheat than hemp. Beans on Sig. Bignami's farm are now (November) six inches high on the tops of narrow ridges, but none in the surrows; these are for a crop, and infinitely

too thick, I should apprehend. Lupines also for ploughing in.

Tuscany. - In the Valdarno di Sura, Colini, Sienifi, Pifani, Volterrana, they fallow, and their course is, -: fallow; 2. wheat. After travelling so long in Lombardy without a fallow, it hurt me to find them common here. Clover is usually made a preparation for maize in most parts of this country; and beans, where sown, are reckoned the best for wheat. At Martelli, &c. the course is, -1. beans, French beans, or maize; 2. wheat; 3. wheat; 4. wheat and rye, and no after-crop. In the Valdichiana, the following course, I am informed, is pursued, -1. maize and French beans; 2. wheat, and nothing after it; 3. wheat and then raves, and, in some places, clover added. At Villamagna, the course is, -1. biade, vetches, beans, &c.; 2. wheat; 3. wheat; 4. wheat. The first wheat produces nine or ten times the feed, if after beans; the second iix or feven; the third three or four: a degradation that ought to explain fully the absurdity of such a system. In some districts the following is the course; - first year, biadi, viz. beans, peafe, chick-peafe, French beans, tares, lentils, oats, maize, the great millet, fmall millet, panic in part clover, and oats, and; after cutting for forage, plought for some of the above. Second year, upon the land thus prepared, wheat is fown, called groffo and ariftata mucked; or with half groffo and half gentili (white wheat). Third year gentili wheat.

Modena.—The bad farmers in the Modenese are fallowists, and their course is,—
1. fallow, ploughed first in May or June, in August the second time, and the third in October, for sowing, 2. wheat. But the better farms substitute beans, French beans, vetches, spelt, maize, particularly the last instead of a fallow. Upon soils that are very good, and manured, they have an excerable custom of taking three crops of wheat in succession; sometimes throwing in clover with the wheat, which is plowed up in June for wheat again. When beans are sown in autumn and stand the frost, they yield much

more than fpring fown.

The husbandry practifed by Sig. Bertolini, which is the best of the country is,—

1. beans, sown in October, and harvested in May: then French beans, or formentoni, for forage, or thick-pease, or lentils; 2. wheat, the stubble ploughed thrice for,

3. wheat;

1. wheat; 4. maize, fown in March. To Reggio they fallow some of their land every third year; but more commonly substitute maize, beans or something else in lieu.

PARMA. - In the country about Vicomero, the common course is, 1. beans; 2. wheat; 3. maize; 4. wheat.

PIEDMONT .- Tortonese. - A common course here is, -1. beans; 2. wheat. Also, -1. melga (great millet); 2. wheat. But they have some lands in fallow courses.

SAVOY.—At Lanesborough, the common husbandry is that of a crop and a fallow: they plough in May or June, and again for the feed in August, when they sow the rye;

From these notes it appears, that there is something both to commend and to condemn in these Italian courses. The rejection of fallows is pretty general; this is a good feature, and the great stress they lay on beans as a preparation for wheat, cannot be praifed too much. On the other hand, there feems to be no idea of fo proportioning the crops of a farm, as to make cattle and sheep (kept on arable land) the preparation for corn: the culture of clover is not unknown, but scarcely extends further than to produce fome hay. I no where met with artificial graffes introduced on fo large a feale as to support a good flock of sheep. In some districts, the great plenty of watered meadow explains this deficiency; but there are more where it will not afford an apology. This objection, however, does not hold good in the Lodizan, where their immense dairies are supported on arable land, and certainly form one of the most curious systems of husbandry that are to be met with in Europe.

SECT. II. -Of Seed and Product.

That reader who thinks slightly of the use of collecting a great mass of facts in these inquiries has not, it is to be prefumed, reflected fufficiently on the great importance, in every science, of combining circumstances apparently unconnected, in order for mutual illustration. He who collects such facts, insulated for a time only, may not live to see the effect of such comparisons; but the gradation of knowledge is preserved without interruption, and the uses will undoubtedly be discovered.

Savigliano.—They reckon here that a farm of one hundred giornati, one third wa-

tered meadow should yield 2300 livres clear of taxes, landlord's half.

PIEDMONT .- Turin. - Products of Sig. Briolo's farm :- wood, eight giornata; meadow, four; wheat, five; rye, five; maize, five. Yields to the proprietor for his half,

315
236
280
.71
247

For landlord's half

Total, 2298 liv. Wood,

2221 livres, product of nineteen giornata of arable meadow, or 116 livres per giornata (about 61. per English acre); which is a very large produce. There are also mulberries enough to pay taxes; this land cost 750 livres the giornata, and the wood 250 livres.

MILANESE.

MILAN eleven fe feeds.

PIEDM fhould fin wheat yie two poun but at pre produce is for the ter fix times Allowing (though o best crops. and their. quantity o ninety-nin the giorna Saviglia

as much, Turin.and oats, half. Wi fifty to fev about five able crop; confidered

MILAN five on mic There is

ries at two where fom lar; and e with the w busy; the granary, the other t fame condi heap alike arm into t ther the we ing, the w cent. A good way keep verm

Mizzate fure the It VOL. IV MILANESE.—Milan to Pavia.—The crops are —Wheat, feven or eight feeds.—Rye, eleven feeds.—Maize, forty feeds.—Ditto quarantino, twenty feeds.—Millet, fifty feeds.

Wheat.

PIEDMONT.—Chentale.—A country proverb in this country is, that a good peafant should finish his wheat sowing by the 19th of October. After hemp, clover, or fallow, wheat yields forty to forty-five mina per giornata, each mina forty-five pounds to fifty-two pounds, average forty-seven pounds, and the common price 3 livres to 3 livres 10 should but at present 3 livres 15 but, including good and bad farmers, and all soils, the produce is not more than twenty-sour mina: that is, twelve for the landlord and twelve for the tenant. They sow four to four and a half; the common produce is, therefore, six times the feed, which is inserable; the better crops between ten and eleven seeds. Allowing for the Piedmont pound, being about one-tenth heavier than the English (though only of twelve ounces), and that the giornata is not equal to an acre, their best crops, at forty-two or forty-three mina, will be near five quarters per English acre; and their average near three; which are not greater than might be expected. Their quantity of seed appears, however, to be immense, for it amounts to one hundred and ninety-nine pounds per giornata, which is extravagant: and makes it suspicious, that the giornata here is larger that the legal giornata of the principality.

Savigliano. - They fow here, of wheat, three and a half eymena, and reap eight times

as much, in a good crop.

Turin.—They fow five mina, or nine rabbii, and ten pounds to the giornata; of rye and oats, the same quantity; of hemp, three mina; maize, one-half; millet, one-half. Wheat produces twenty-five mina; or five times the seed; rye, thirty; maize, fifty to seventy; millet, twenty. The mina at forty-sive pounds the crop of wheat is about five and a half coombs per English acre. For their land and climate, a miserable crop; but as good, or better, than they deserve, when their course of crops is considered.

MILANESE. - Mozzata. - Produce of wheat, eight stajo per pertica on the best land;

five on middling; and three on the worst.

There is a fingular neglect in keeping wheat in this country: being shewed the granaries at two houses, in which the quantity was considerable, I was surprized to find that, where fome of the windows were open, the room stunk very much; the scent particular; and examining the wheat, I found the furface all either covered, even to shining, with the webs of the wevils, or else in ropes, hanging together by it, and the flies busy; the wheat was two or three feet thick, and had not been stirred. In a third granary, to which I went for fatisfying my curiofity, in the hands of the owner, (for the other two belonged to noblemen, and were managed by intendants,) I found in the fame condition; and all agreed, that to stir the wheat is bad, as it makes the whole heap alike; whereas, by not moving it, the furface only fuffers. On this, I thrust my arm into the heap, to examine the interior, which all ftunk dreadfully. Perhaps neither the wevil, nor any other infect, may live deep in the heap; but, for want of airing, the wheat !tinks; not to mention the furface, which is a loss of five or fix per cent. A most barbarous system of management. It is worth remarking, that the only good way of keeping wheat is in the straw: stacks should be built on capt stones, to keep vermin out, and the corn thrashed as wanted.

Mezata. - The product here, on three divitions of foil, are, per pertica, the mea-

fure the Itajo,—

					Good.	. M	L iddlin	g.	Bad.			
	Wheat		•		8	•	5	-	3			
•	Rye	•		•	8	-	5	•	4			
	Millet		•		8	-	5	-	3			
	Comm	on mai	ze,	-	10	-	6	-	4			
	Ditto 9	Quaran	tino,	•	6	•	4	-	2			
	Lupine		•	-	8		6	-	4			
	Panic,	· •			6	-	4		2			
Clover hay, three h	nundred	and fif	ty pou	ands								
of twenty eight of	unces p	er pert	ica,	at 3	•					•		
mowings; one thi	ree-four	ths ton	per a	cre.								
In money by corn	withou	it muli	berrie	s or								
vines.	•	_			24 1	iv -	151	-	91			
or the landlord's f	hare. I	loggul	e. A	Ind.	in re	fpect	to th	e co	intry	in ge	neral.	f four
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Codogno.-The feed and produce of the crops here, are,-wheat, fow one stara and reap fix times as much; maize, fow one fourth of a stara, and get twenty for one; millet, fow one-eighth stara, and reap fix stara; rye, fow one-half stara, the produce eight stara; rice sow one stajo, gain sixteen rough, or quite white.

A Berg yields fou and fixtee able tillage Brefcia. pezè each pounds B French pe therefore, tiche; this tiche in the twelve pez acre, fupp more than fuch pezè. hundred ar and per E hundred p tured in au hundred pe per English call grossly To Veron lands with of it from I but not fo poplar, are which are t for corn. feveral, for prevent too forest trees doubt, the generally, b farther afun nearer. A

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+ In the ne braccio, and fi oblong fquare, = 481; and t English acre;

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[•] The 6 pertica per acre English, corrected from some of the preceding proportions, from intelligence very lately received.

A Bergamalque writer observes, that wheat cultivated with the plough commonly yields four, five, and fix times the feed; but cultivated with the spade, twelve, fourteen, and fixteen times that quantity *, and this of great veight; a fure proof of their miferable tillage.

Brescia. - Arable products in this vicinity, are, - wheat, three facchi, of fourteen pezè each pezè twenty-five pounds being about fix feeds. The pezè of twenty-five pounds Brescian, being equal to 144 French, makes two hundred and fix pounds French per fack, or two hundred and twenty-four pounds English: the three facks, therefore, are fix hundred and seventy-two pounds English, on a jugero of four pertiche; this is scarcely twelve bushels the English acre, reckoning four one-fourth pertiche in that acre †. Maize sown in March, produces six, eight, ten sacchi, each twelve pezè of twenty-five pounds. This is about twenty-eight bushels to the English acre, supposing a bushel of maize to be fifty pounds; but quarantino does not yield more than five fuch facks. Melico (the great millet,) fifteen facchi, of ten or eleven fuch pezè. Flax, fix to nine pezè, at 20 livres to 25 livres the pezè; this is about one hundred and twenty-five pounds the English acre, and 170 livres at 6d. English, 4l. 5s. and per English acre 4l. Millet gives three sacchi, of eleven pezè. Clover, three hundred peze of hay, at three cuts; meadows yield the fame as clover, but are paftured in autumn. Price of hay 70 livres the carro, of one hundred peze. Three hundred pezè equal four thousand eight hundred and twenty-seven pounds English, and per English acre, four thousand five hundred and twenty-two pounds, which we may call grossly two tons; a very poor crop for three mowings.

To Verona.—In this line of country, the Lombardy system, of planting all the arable lands with rows of pollards, for training vines, is at its height. There is a good deal of it from Bergamo to Brescia; and some are seen in passing from Vaprio to Bergamo, but not fo univerfally as here. It is a most fingular system; rows of maple, ash, or poplar, are planted from four to feven yards afunder, and rows of vines at their feet, which are trained up those trees, and in festoons from tree to tree; the space is cultivated for corn. They do not feem to approve of a fingle ftem for these pollards so much as feveral, for they have three or four, about fix feet high; cropped every fecond year, to prevent too great a shade. In some places, mulberries are mixed with these common forest trees: one mulberry, and then two ash or maple. In some rows, beyond all doubt, the vines are trained equally on the mulberries as on the other trees; but not generally, being fastened only to the stems of the mulberries. The better the land, the farther afunder are these rows, even to fixty or seventy feet; but, in worse land, much nearer. All the way, the foil is a floney gravel, of a different appearance in quality, but

where holes are dug for trees, it looks better.

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Verona.—Wheat here yields five or fix times the feed. They fow one hundred Veronese pounds upon a campo of land, and reap five hundred and fifty, which is about two bushels of feed per English acre, and the produce eleven bushels. We have not, upon the poorest lands in England, so wretched a crop: to what are we to attri-

* Cantuni, Instruzioni Pratiche intorno al Agricultura. 8vo. 1788, Bergamo. p. 16,

⁺ In the new edition of Agostino Gallo, the editors give a line for the length of a Breseian inch (oncia)
which is the length of 1 th inch English. Twelve of those oncia make one braccio, and fix braccia make one cavezzo; consequently there are of feet in a cavezzo. A pertica is an oblong square, twenty cavezzi long and five wide; now multiply 91 by 20 = 195; and multiply 91 by 5, = 48; and the one product by the other, = 9506; square seet for a pertica; and 4; pertiche equals an English acre; perhaps the editors of that new edition have made an error, in stating 30,709 French seet in their jugero of 4 pertiche.

bute it, if not to general bad management, united with the execrable fystem of incumbering their fields with pollards and vines. They steep their wheat feed in line-water

twelve hours, to prevent the fmut.

Vicenza.—The thirty-two miles from Verona hither are all, except a finall quantity of irrigated land, lined into the fame rows as already described, from twenty-five to thirty yards afunder. Wheat is fown close under them; but with maize fix yards are left on each side not cropped; and, in some pieces, those twelve yards are sown thick for forage, as not equally wanting sur; a sure proof that they admit the damage of the trees, and provide against it as well as they can. In some grounds preparing for wheat, manure is spread as far as the roots of the trees extend, but no further. What a system, to give dung to elms and maples, and to force wheat to grow under their shade!

Wheat has now (October 23.) been fown a month or fix weeks; it is high, and thick enough to hide a hare. The borders of these fown lands are dug clean away, as

deeply as in Essex.

Maize produces about nine one-half facchi the campo. Inquiring here into the estimated damage resulting to corn from the plantations of trees in arable land, I was told, that the loss in one-tenth of wheat, and one-half of maize, but to clover none. The trees here are all walnuts, for training vines to, the damage clone by them, agreed to be very considerable. Of wheat they sow three stari, and the produce eighteen to twenty; of maize one, and the crop thirty to thirty-sive; of cinquantino, half a stara, produce sixteen; of buck-wheat one-sourth, the return six. In the sarms around the celebrated Rotunda, maize produces sive sacks, each one hundred and sifty pounds: a sack is four stari, and the stara about three pecks; this is sisten bushels, and not sixteen, the acre. They are sometimes troubled with the smut; Sig. de Boning, President of the Academy of Agriculture, has tried liming and lime water, as a prevention, but without any success. Of maize they have a new sort, that carries a male slower on the top of the cone, and this fort always sills with grain to the very point, which is not the case with other kinds.

In respect to the exhausting quality of crops, they reckon that the maize which carries the flower at top takes most from the land: 2. millet: 3. common maize: 4. wheat. It seems remarkable, that they should consider the crops which are prepa-

ratory to wheat as exhausting, more than the wheat itself.

Padua.—Of wheat they fow three staji in middling land, two in sertile soils, and sour in bad ones, per campo: as the stajo is equal to forty-one French pounds, and the campo about one-tenth less than an English acre, it makes three staji equal to two and a half bushels per acre, which is pretty exactly the quantity we use in England. The crop is two mozzi on the best land, and one and a half on a medium: each mozzo twelve staji: this is about sisteen and a half bushels the acre or under seven times the seed. Thus these wretched products pursue me through all Lombardy. Of maize they sow three quarti, or three-sourths of a stajo, but it planted two: the produce, good sive mozzi, middling three, bad one. Of lucern (the quantity very inconsiderable) and of clover they sow twelve pounds gress. This pound is to the French one as 9150 is to 9219; this is between sourteen pounds and fifteen pounds per acre. Clover gives three carri, each one thousand pounds at three cuts. Lucern sour carri, at sour or five cuts. Almost he whole country is lined into rows of pollards, as already described; yet they admit that every fort of tree does very great damage to all arable crops; but to grass the mischief is not great.

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To Vonice.—The same level at this city that reigns about Padus, equally enclosed and planted; much of it arable, and almost the whole cut into little scraps of fields, with many gardens. Near the Adriatic, a dead level marsh, cover 1 with many graffes.

ECCLESIASTICAL STATE.—Bologna.—In a famous field near the city, remarkable for yielding great crops of hemp, wheat yields one hundred corbes for five of feed. In general, they fow two and a half tornature of land, or one acre and a quarter, with a corba of feed, or one hundred and fifty pounds to one hundred and fixty pounds (fomething under the English pound); and in all the Bolognese, on an average, the produce is about five feeds, some only three; but on the best hemp lands twelve to sixteen, on a medium; but twenty for one are sometimes known.

Tuscany.—Florence.—In the plains, the general produce is eight times the feed; the whole dutchy through, not more than five or fix: in the deposits of rivers, or spots remarkably rich, twelve, fifteen, and even twenty. All these are wheat. Beans four and a half and five. On one stioro of land they sow three-sourths of a stajo of wheat, which weighs fifty-two pounds to fifty-sive pounds of twelve ounces (this pound is equal to three quarters of a pound English. On the hills they sow one-sourth more. Supposing the stiora to be, according to De la Lande, seven thousand and fifty-six French feet, about five and a half make an English acre; three-sourths of a stajo therefore per stiora equals one hundred and fixty-sive pounds per acre, or very near three bushels.

But I found at Martelli, near Florence, that they fowed but one third of a flajo per stiora, which would not be more than two bushels per acre. Beans would be much more cultivated, but for the pernicious plant the cuscuta—a parasite that feeds on and destroys the crop, so that even the seed again is not reaped; in the old botany called probanchis ramosa, and in Tuscany succa mala, and siamini. Of saggini they sow one and

• There are three accounts before me of the contents of a Tuscan stora. Mons. De la Lande, tom. ii. p. 311. says, "le stora = 196 toises quarrés en superfeie;" these are French toises, each fix seet: this makes about 5\frac{1}{2} stori to an length ace; that is to say, 7956 French square seet, of which 38,300 are an acre. In La Squadra mobile l'arithmetica e l'Agricoltura, cel S. Sangiovanni. 4to. Vicenza, 1759, p. 11. and 13 is its the measure of the soldo of Florence, which equals 1\frac{1}{2} inche English, (by another account 23\frac{1}{2}); 6 braccia make a canna: and 8 canne long, by 6 broad, make a stora. Hence there are 6075 English feet in the stiona; consequently there are something above 7 stiori in an acre. Mons. Paucton, in his Metrologie, p. 794, compares it to the aspent of France of 48,400 French seet, and makes it to that arpent as 0.11461 to 1.0000; by this account it will be about 27,800 French seet, of which seet 38,300 are an acre, or above 1\frac{1}{3} stora. In the Giornale Fiorentino di Agricoltura, 1786, p. 253. "L'acre al noslo stioro sta come 18,992 a 10,592; by this ratio, an acre is about 1\frac{1}{3} stora. All these accounts differ therefore greatly. To compare other circumstances.—At Martelli, they sow one-third of a stajo of wheat seed on a stora; and at Villamagna, they sow \frac{1}{2} stori with 1 stajo, which quantities nearly agree. By De la Lande's account, this will be per acre English 73th which appears to be a smaller quantity than any where nsed. By Sangiovanni, it will be about 94th. Still under the common quantities. By Pancson, it will be about 17th.; a portion not to be named as the sed of an acre. And by the Florentine author, 23th. which is almost equally absord. Seed wheat will agree with none of the measures; suppose they sow \frac{1}{2} bussels per acre, then there are 15 stori in an acre. If 2 bussels then, there are 12 stori. All is consultion.

At Villamagna, they fow 24 flaji of beans on 28 fliori of land; this is about 3 bushels English per 54 fliori, which agrees very well with an acre being $\frac{1}{2}$: they sow also 6 staji of oats on 10 fliori, this would be 2 bushels on 5: they sow oats therefore rather thinner, proportionably to the English practice, than beans.

Upon my getting a friend to write to Tuscany for information, I received such as proved of no use; simply this table, -1 quadrato, 10 tavola; 1 tavola, 10 pertiche; 1 pertica, 10 deche; 1 deca, 10 braccia quadra. This makes the quadrato under 40,000 feet English. But what is the fliora? Such are the endless difficulties in every thing concerning measures.

Where authorities, apparently good, differ fo greatly, the reader will of course receive all estimations with many doubts.

a half stajo of seed, and the produce fifty to fixty. Of formentone (ma'ze) they fow half a stajo, and reap twenty five.

On the plains in Tuscany, the chief product is wheat, the second wine, and the third oil; but on the southern side of the hills, olives on spots bad for them, and wine.

Silk no where enough to be a chief object.

Modena.—The country from Modena to Reggio constantly improves in its features, and must be reckoned among the best cultivated in Lombardy; the fields are thrown into arched lands, like Flanders about twenty-five yards broad, and small ridges on those: a row of trees is planted on the crowns of some, and along the surrows of others: in some there are neat great trenches; and as the sences are equally well made, and the meadows with a good aspect, the country carries the general seatures of being well cultivated. The appearance of these broad ridges, in two of the best cultivated countries in Europe, Lombardy and Flanders, justly gives a high idea of the practice.

PARMA.—From Reggio to Parma, there are many lands, three or four yards broad, now (November) deep ploughed, and the furrows cleaned out by spades, laid up in this manner, for planting beans in the spring; excellent management. There are also a good many autumn sown ones, three or four inches high: produce in general, about Vicomero, wheat four or five times the seed, and beans sive or six. To Firenzula this practice takes place yet more, and is better done. The merit of their husbandry appears to be greater about Parma than at Piacenza; there is a visible decline as you ad-

vance.

Savoy.—At Lanefbourg, they fow only rye, which they harvest in July, the produce about fix for one.

If the intelligence concerning the produce of wheat be reviewed, it will be found, on an average, varying from five to feven and a half times the feed; generally between five and fix. Suppose the latter number, and we shall, with reason, be amazed at the miserable products of this rich plain, in every thing except grass and filk. The average foil of England cannot be compared with the average foil of Lombardy, yet our mean produce is eleven times the feed, perhaps twelve. Every one must be curious to know the cause of such wretched crops: I attribute them to various circumstances-but the predominant cause must be sought for in the small farms occupied either by little peafant proprietors, or, what is more general, by metayers. This abominable fystem of letting land is the origin of most of the evils found in agriculture, wherever the method prevails. Such poor farmers, who, in every part of Italy where I have been, are fo miserable, that they are forced to borrow of the landlord even the bread they eat before the harvest comes round, are utterly unable to perform any operation of their culture with the vigour of a substantial tenantry; this evil pervades every thing in a farm; it diffuses itself, imperceptibly to a common eye, into circumstances where none would feek it. There are but few districts where lands are let to the occupying tenant at a money rent; but wherever it is found, there crops are greater; a clear proof of the imbecillity of the metaying fystem. Yet there are politicians, if they deserve the name, every where to be found who are violent against changing these metayers for farmers; an apparent depopulation is faid to take place; and the fame stupid arguments are heard, that we have been peftered with in England, against the union of farms. Men reason against that improvement of their lands, which is the natural progress of wealth and prosperity; and are fo grossly abfurd as to think, that doubling the produce of a country will deprive it of its people.

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SECT. III .- Of the Culture of Plants.

Gallega Officinalis.—Commonly spontaneous in the fields, between Milan and Pavia, and wherever cattle have admission all closely eaten.

Paliurus.—I know no plant that makes a better hedge than this in the north of Lombardy. Sig. Pilati, near Brescia, has one of six years growth, as good as an excellent white thorn one in England would be in ten.

Trigonella Fanum Gracum.—Cultivated in the Bolognese in preference to clover; foil

with it; and fow wheat on the land.

Sainfoin .- In Tuscany, the coline de Pisani are much under this plant, which is called lupinello; particularly about Castel Fiorentino, where it was introduced about twenty years ago by Sig. Neri; one of the good deeds which deserve a nation's thanks, better than a victory, or the taking of half a dozen towns. A thousand sacks of the seed were fent thence to Naples and Sicily. Will those kingdoms awaken at last? Sig. Paoletti, at Villamagna, has a piece of good fainfoin on a steep slope; but I found one-third of it burnet.

Larch.—In the Milanese, at Mozzata, the Count de Castiglioni having two hundred. pertiche of waste heath, and a community two hundred more adjoining, he took a lease of it for ever; and ploughing the whole, fowed acorns, planting alder, larch, and other trees, which do well; but the fown oak, in eight years, exceeded every thing, and are beautiful trees: the foil a poor gravel. We have in England fo many prejudices, that a man who does not travel is apt to think that every thing English is better than the same things in other countries; and, among other follies, that for oak England is fuperior to all the world: but timber wants fun as much as wheat; and I have no where in England feen fuch a growth of timber, as in many places abroad. Larch abounds greatly in the mountains, and is reckoned an admirable wood for water-works; all posts are of larch. I have read in some writer, that there is a law in many parts of Lombardy which allows a land-proprietor, whose estate is entailed, to plant, on the birth of a daughter, a certain number of Lombardy poplars, which are her portion on coming of age, or being married, in spite of any entail. I enquired, both in Piedmont and here, into the truth of this, and was affured there is no fuch law; nor did they ever hear of the custom, even when estates have not been entailed.

In the arfenal of Venice is some quantity of larch, kept under cover, and valued greatly for all works exposed to water. They are not very large, but cost twenty-two ducats each. The masts are very fine pine-trees, from the upper Trevisano; I meafured one thirty-eight yards long, and two feet diameter at the butt, and one foot at the

other end.

Lucerne. —I mention this plant, for an opportunity of observing how very rarely it is cultivated in Italy: I faw a little near Padua; and there is an inconfiderable quantity in the Parmefan, where it is cut five or fix times; they find that cows give more milk

on it than on any other grafs.

Raves.—I was surprised to find turnips, or rather the French raves (for I fear they are not the genuine turnip) cultivated in Tufcany. I was affured that in the Valdichiana there are many, fown immediately after wheat, but never hoed, yet come generally from two pounds to five pounds; fome to thirty pounds (twenty pounds English), and that they are applied to the feeding and fattening of oxen, which fell at 140 feudi the pair (39l. 13s. 4d. English); nothing beside is given, except a little hay.

Cyprus Tree.—At Soma, near the Lago Maggiore, there is a famous cyprus tree, which Corio, in his Storia di Milano, fays, was the place where the people affembled in congrefs. congress in the thirteenth century; it was then the most celebrated tree for fize and age in the Milanese, and must therefore be immensely old at present. It is now in good health, except a few branches that have suffered a little towards the top; it is nine braccia in circumference.

Culture of Silk.

Nice.—Eight roups of cocoons, or eighty-four pounds, make twenty-four pounds of filk (eleven ounces and a half), which fells at 10 livres 5/. the pound; a roup of leaves fells at 20/. and two hundred and fifty roup are necessary for eight ounces of grain (eggs).

Cont.—The whole country, after ascending the Alps, is planted with mulberries around every field, and if large, in lines across. I remarked great numbers from ten

to fifteen years old.

To Chentale, one ounce of grain requires three hundred and fixty roup of leaves; each roup twenty-five pounds, and yields four or five roups of bazzoli or eacata (cocoons), and one roup of cockoons makes three pounds of filk. The price of organzine 20 livres to 2.4 livres per pound; the offal pays the spinning. Gathering the leaves costs

2 f. to 3 f. the roup.

Chentale.—The feed of the mulberry is fown in nurferies, and the trees commonly planted out at four years old. The first, second, and third year, they are pruned, for giving the branches the right form; the fourth, they begin to gather leaves. Some which were shewn me by the Count de Bonaventa, of eighteen years old, give fix, seven, and to eight rubbii of leaves each. One old tree, a very extraordinary one, has given filty-three roups. A large tree, of fifty or fixty years, commonly yields twenty-five rubbii. They never dig around them, nor wash the stems, as in Dauphiné; but they have a practice, not of equal merit, which is to twift straw-bands around the stems, to defend them against the sun. For one ounce of grain fixty-five to eighty rubbii of leaves are necessary, which give two and a half rubbii of cocoons, and fometimes so far as four. One rubbio of cocoons yields twenty to twenty-one ounces of filk organzine, of the price of 18 livres per pound. For gathering the leaves, from 1 f. 8 den. to 2 s. the rubbio is given. The offal (moresca and chocata) pays the winding and spinning. They never hatch the worms by artificial heat, using that of the sun, or of the human body. The common method of carrying on the business is to provide, as in France, grain and mulberries, and to receive half the cocoons. The cultivation is fo profitable, that there are many lands to which mulberries add a value of 200 livres, or 300 livres, more than they would fell for if they contained none; and it is farther thought, that they are little injurious to corn, the shade not being so prejudicial as that of the walnut, and of fome other trees. The common estimation of profit is, that trees of all ages yield from the time of beginning to bear, from 30 f. to 4 livres each, nett to the landlord for his half produce.

Turin.—One ounce of grain gives two to four rubbii of cocoons, and demands one hundred and twenty rubbii of leaves; one rubbio of cocoons will give twenty-two ounces of commonly well fpun filk. The price of grain 12 livres the ounce when very fearce, but in common 30/1; that of leaves 7 or 8/1 per rubbio. Cocoons, 21 livres per rubbio. When I asked the price of the filk, the answer was, Oh! for that, it is the price the English choose to pay for it. The common price of organzine, 16 to 20 livres, first quality; raw, 12 livres. For gathering the leaves, 2/1 per rubbio is given. Of the different forts of mulberry, the wild is the best, in point of quality of filk. A tree of twenty years wilt give twenty-sour

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or twenty-five rùbbii of leaves; fome to thirty-five rubbii. The trees are grafted in the nurfery, and planted out at four years, at the beginning of April; price, 20 f. to choose out of many; and in four years after begin to gather. When planted in watered meadows, the gathering damages the hay almost to the value of the leaves, yet many are so planted; and many peasants think they lose in corn by the shade of the trees, as much as they get by them. From the 22d to the 26th of April is the season for hatching; never by fire; nor have they any method of retarding the hatching, in case of a want of leaves. Endive, lettuce, and elm leaves, have been often tried as a succedaneum, but always killed the worms; such things must never be depended on. The peasants generally sell the cocoons, not one in a hundred spinning. A chamber of twenty feet by twelve feet is necessary for three ounces of grain; and six tables, one trebucco long and two-thirds wide.

Novara.—Passed this place towards Milan, which is a great tract of mulberries for

f veral miles.

MILANESE.—Buffalora to Manienta.—Many mulberry hedges, but they are bad and ragged; fome new planted in the quincunx position. For several miles the country is all planted in rows of vines, at twelve, fixteen, and twenty feet, and fruit trees among them, for their support; among which are many mulberries, and the vines running up them. This must be a most profitable husbandry indeed, to have filk and wine not only from the same ground, but in a manner from the same tree. Between the rows the ground is cultivated; millet, maiz (cut), bolcus forgum, the great millet, lupines, with dung amongst them, to be ploughed in for wheat, with young maiz, sown thick, as if for fodder.

Citricho.—A beautiful mulberry hedge, and in good order; fix to eight inches from plant to plant, and cropt at fixteen or eighteen from the ground. It is clear therefore that the plant will do, with care, for a good hedge. Towards Milan, mulberries de-

cline, oak and other pollards being found in their stead.

Mozzata.—The culture of mulberries and making filk, being here much attended to, were principal objects in my inquiries. The fruit is well washed, the end of June, to make the feed fink; it is then fown in rows, in a bed of earth well manured, and finely laboured, in the rich nurferies near Milan; covered very lightly, and the furface lightly flattened; straw is spread to defend it from the sun, and much water given. When the young plants appear, they are weeded by hand. The fecond year, they grow to two or three feet high, and hoed and thinned. The third year, they are cut to the ground above the buds that are to push, and transplanted from those nurseries, in the vicinity of the city, to others that are feattered all over the country, in ground well dug and manured, and at two feet fquare; here they are kept clean by hocing. The fifth, year, in the spring, they are cut again to the ground; they then shoot very powerfully, and attention must be given, to keep but one good shoot, and the ground is dug or hoed deeper than common, and also dunged. The fixth year, those that are high enough are grafted, and the rest the year following. Those that took the fixth year, ought to reft in the nurfery three years, including the year of grafting, that is, the feventh and eighth year. They do not like to plant large trees, and have a proverb,

> Se vuoi far torto al tuo vicino, Pianta il moro groffo e il fico piccolino.

As to plant small fig trees is as bad as large mulberries.

The holes are made in winter for receiving them where they are to remain; these are nine feet square and two feet deep, and have at the bottom a bed of broom, bark vol. 1V.

of trees, or other rubbish; then the best earth that can be had, and on that dung, one load of fixteen seet to four trees; this is covered with more good earth, and this levels the hole with the rest of the field; then prune the roots and plant, setting a pole by the young tree to the north, and a spur post on the other side, to guard it from the plough. Twing no straw the first year, because of the insect forsicula auricularia, L.; but in November bind straw around them against the cold, or, as straw is dear, the poa rubra, which abounds. Never, or very rarely, water. Much attention to remove all buds not tending in the right direction.

The fourth spring after planting, their heads are pollarded in March, leaving the shoots nine inches long of new wood, and seeking to give them the hollow form of a cup, and that the new buds may afterwards divide into two or three branches, but not more. The next year they begin to pluck the leaves. They are attentive in pruning, which is done every second year, to preserve as much as they can the cup form, as the leaves are gathered the more easily. Thus it is about fourteen years from the feed be-

fore the return begins.

After gathering the leaves, a man examines and cuts away all wounded shoots; and if hail damage them, they are cut, let it be at what time of the year it may. Old trees are pruned after gathering, but young ones in March. In autumn, the leaves are never taken for cattle before the 11th of November, as the trees after that time do not fuffer. The third year after planting young trees, they fow about a hat-full of lupines around the flem, and when about ten inches high, dig them in for manure. The opinion here is, that the mulberry does very little harm to rye or wheat, except that when cut the falling of branches and trampling are fomewhat injurious. Maiz, millet, and panic are much more hurt. A tree, five years after transplanting, gives ten pounds of leaves, each twenty-eight ounces. At ten years, eighteen pounds. At fifteen years, twenty-five pounds. At twenty years, thirty pounds. At thirty years, fifty pounds. At fifty to feventy years, feventy pounds. There are trees that give eighty pounds, and even one hundred pounds. The price of leaves is commonly 4 livres per one hundred pounds (twenty-eight ounces). For one ounce of grain five hundred pounds of leaves are necessary, and yield feventeen pounds of cocoons; but among the risings in the mountain of Brianza, twenty five pounds. To make a pound of filk, of twelve ounces, five pounds or fix pounds of cocoons, of twenty-eight ounces, are required. Price of cocoons, in the low watered country, 2 livres per pound twenty-eight ounces). At Mozzata, 21 livres. At Brianza, 3 livres. The grain is hatched in a chamber, heated by a chimney, and not a stove, to seventeen degrees of Reaumur (seventy and a half Far.); but before being placed in this chamber, they are kept eight days under a bed, with a coverlet upon them, in boxes covered with paper pierced; and when hatched lay the young leaflets of the mulberries on the paper, to entice them out. The method of conducting the business here is the same as in France, the landlord furnishes half the grain, and the peafants half, and they divide the cocoons. Price of grain, 2 livres the Mulnerries, of all ages, are pollarded every fecond year; a mischievous custom, which makes the trees decay, and leffens their produce; it is never done in Dauphine, where the culture is fo will underflood.

Milan. - Sig. Felice Soave made fome interesting trials on filk worms.

At Lambrate, near Milan, two ounces of feed in rooms kept to the heat of twenty three and twenty-four degrees of Reaumur, hatched well, and kept healthy: the 28th of April the feed was placed in the rooms, and hatched in the third, fourth, and fifth day: the 21ft of May the first eccoon feen, and at the end of the month all were at work. The product gathered the 3d of June; the product ninety-two and a half pounds of co-

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coons (twenty-eight ounces); eighty-four of them having been fpun from four and five cocoons, gave twenty pounds and one-third (twelve ounces) of filk, ftronger and more fhining than common: the confumption of leaves, fourteen hundred and twenty pounds, of twenty-eight ounces. Wood used for fire, two thousand eight hundred pounds; but the two rooms would have served for four ounces of seed. In the common method, without stoves, the confumption of leaves is five hundred pounds for an ounce of seed, and the medium product is not above sisten pounds of cocoons; and by this new method, the confumption of leaves has been seven hundred and ten pounds each ounce, and the produce forty-fix and a quarter pounds of cocoons. Sixteen or seventeen cocoons weigh an ounce in the common method, but in this only thirteen or fourteen. The silk cannot commonly be spun from sive or six cocoons; these were spun cashly from sour or sive, and might have been done from three or sour. To gain a pound of silk, in common, sive pounds of cocoons are necessary; but here the same quantity has been gained from four pounds.

Lodi to Codegno.—In this dead level and watered diffrict there are very few mulberries; none except near the villages; many of them, not all, appear unhealthy, perhaps by reason of their not exerting the same attention as in Dauphiné, where there are, in arrigated meadows, mounds made to keep the water from these trees.

Codogno to Crema. - Mulberry trees here have large heads, as in Dauphiné, instead of

being pollarded inceffantly, as to the north of Milan. There is an idea in the Milanese, that filk was introduced by Ludovico il Moro. Francesco Muralto reports, " Prædia inculta infinita duobus fluminibus ad novalia (Ludovicus), reduxit infinitas plantas Moronum ad conficiendas setas, seu sericas plantari secerat et illius artis in ducatu, primus fuit auctor *." It is faid to have been introduced into Europe by some Basilian monks from Sirinda, a city of Indostan, to Constantinople, under the Emperor Justinian, in the year 550, by one account †; and by another, in 525 1. In 1315, the manufactory of filk was brought in Florence to great perfection, by the refugees of Lucca §; but during the fifteenth century no filk was made in Tufcany; for all used in that period was foreign, filk worms being then unknown ||. In 1474, they had eighty-four flops that wrought gold and filver brocaded filks, which were exported to Lyons, Geneva, Spain, England, Germany, Turkey, Barbary, Afia, &c. ¶ Roger I., King of Sicily, about the year 1146 **, having conquered fome Grecian cities, brought the filk-weavers from thence into Palermo; and the manufacture was foon imitated by the people of Lucca, who took a bale of filk for their arms, with the infeription—Dei munus diligenter curandum pro vita multorum † 1. In 1525, the filk manufacture at Milan employed twenty-five thousand people; and it feems to have augmented till 1558 ff. In 1423, the republic of Florence took off the duty of entrée upon mulberry leaves, and prohibited the exportation; and fome communities of Tufcany have records concerning filk anterior to that period §§.

In almost all the districts of the Milanese mulberry trees are met with, very old, with towering branches; among which are those of Sforzesca, planted under Ludovico il Moro ||||, who lived at the end of the sisteenth century.

^{**} Atti Societa Patriotica, vol. ii p. 225. † Saggio fopra la Replicata Raccelta della Foylia del Gelfo, 1775. p. 1. † Dizionario del Filugello, 12mo. 1771, p. 43. § Ragionamente fopra Tofesna p. 49. ¶ Dicima, tom. ii. fez. 5. cap. 4. ¶ Binecello Dci. ** Giannone Storia Giv. Y. ii. lib. 11. cap. 7. † Saggio, &c. p. 56. † Optife Seche, vol. vii. p. 12. Barto exzi. { Lagni, tom. ii. p. 513. } Elementi d'Agricoltura. Aitterfacher,

VENETIAN STATE.—Vaprio to Bergamo.—There are many mulberries, mixed with the cultivation of corn and vines, in this tract of country.

Bergamo. - Four ounces of feed are here given to each poor family, which yield four

pesi of cocoons.

Brescia.—One hundred pest of leaves are necessary to one ounce of seed; and sour pest of bozzosi, or cocoons, are the produce of one ounce; and the pest of cocoons gives twenty-eight to thirty ounces of silk. Cocoons sell at 45 livres per pest. Leaves at 1 livre; and silk at 22 livres to 24 livres per pound. The trees are lopped every three years; yet some are known that give twenty pest of leaves. Small ones half a pest and

one pelo.

Verona.—One ounce of feed demands feventeen or eighteen facchi of leaves, each one hundred Veronese pounds (or seventy-four pounds English). Twelve ounces of seed are given to each family; and each ounce returns fixty pounds of cocoons, at twelve ounces the pound; the price 24 f. the pound. To each ounce of feed fixteen to eighteen facchi of leaves, each one hundred pounds of twelve ounces are necessary. The fixty pounds cocoons, at 24 f. are 72 livres, or 36s; which is the produce of eight trees, or 48.6d. a tree, the half of which is 28. 3d. It must however be remarked, that these prices of cocoons vary fo much, that no rule can be drawn from them: this price of 24 f. the pound is very low, and must arise from some local circumstance. One ounce of filk to one pound of cocoons. They are here, as in the preceding diffricts, in the cultom of finding the trees and half the feed, and the peafants the reft; and they divide the cocoons. A tree of forty years old will give four facchi; and if a plantation confilt of one thousand trees, they will, one with another, give two facehi. They make filk in the Veronese to the amount of a million of pounds of twelve ounces. There are, near the city, fome trees in a rich arable field feventy years old, that yield from four to fix facks of leaves each; this is about 10s. a tree at the lowest price of cocoons.

To Vicenza.—There are many rows of mulberries in the meadows, that are never dug around, and yet quite healthy, which proves that they might be feattered fuccefsfully about grafs lands, if any proof were wanting of fo undoubted a fact. In the arable lands, the foil all gravel, they are planted twelve ridges apart. Some of the trees are old,

that spread seven or eight yards across.

Vicenza.—The produce of filk amounts here to about 6 livres the campo, over a whole farm; this is about 3s. an acre. The facco of leaves weighs feventy-five pounds, and forty facchi are necessary for one ounce of feed; which gives one hundred pounds of cocoons, and ten pounds of filk. One hundred trees, of twenty years old, yield forty facchi; price 3 livres to 11 livres; commonly 3 livres. Price of cocoons 30 f. to

50 s. the pound.

I was glad here to meet with some intelligence concerning the new silk worm, said to have come from Persia, which they have had here eight years, but is in the hands of so few persons, that I could get none of the seed; and I suspect that it is lot, for, on repeated inquiries, I was referred to other parts of Italy. While they had this worm, they had four crops of cocoons a year:—1. In the beginning of June. 2. The end of the same month. 3. The middle of August. 4. In October. This worm is effentially different from the common ones in the circumstance of hatching: no art will hatch the eggs of the common fort the first year, that is the year of the slies dropping them; they can be hatched the year following only; but of this new sort, the eggs will hatch in fifteen days the same year, if they be in the proper heat. But it is to be observed, that they use this fort of worm not really to command several crops in the same year, for mulberry trees will not bear it without destruction, but merely as a succedaneum to the common

fort of vin refer but the many ye

This author Count (experin called n it was the later in that cou commo the fam leaves, fed with the other in the h better, The far times a it, thou kept the be hatch admits, times, they eat tage in but the he fold an evil time; venth a mon wo the wor that the

They thither mon, a hatches refolves fons wh Englan nothing all in c food; equally fort, fo at Ven

fort of worms, if by frosts in the spring they be lost for want of food; this new sort is in reserve to apply the leaves to profit once in the year. Theoretically the plan is good; but there must have been something in practice against it, or we may conjecture that after

many years the use of them would have been generally inti-duced.

This will not be an improper place to introduce some remarks on this subject, by an author much efteemed, but quite unknown in England. It appears from the work of Count Carlo Bettoni, of Brescia, that the discovery of the new filk worm arose from experiments made with a view of finding out a cure for the fickness of mulberry-trees, called moria; this was supposed to arise from stripping the leaves in the spring annually; it was thought that if fome means could be discovered of postponing the gathering much later in the year, it would greatly favour the vegetation and health of the trees; an effect that could only take place by means of a worm that would hatch much later than the common one. In 1765, a fecond hatching of the eggs of the common worm is faid, by the fame author, to have been made; part of which were fed with the fecond growth of leaves, and part with the leaves of trees that had not been gathered in the fpring. Those fed with the old leaves gave a greater number of cocoons, and of a better quality than the others. These experiments were repeated by many persons; and it was found, that in the heats of July and August the worms would not do well; but in September much better, and that the trees did not fuffer from having their leaves gathered in September. The fame author fays that the new worms (which he calls forestieri) will hatch three times a year, and that no art will prevent it; no cellars, no cold will keep them from it, though it may retard them fome time, as he tried in an ice-house, by which means he kept them inert till August. But, on the contrary, the common fort cannot in general be hatched a fecond time the fame year, even with any heat that can be given; yet he admits, that they were hatched by certain persons in 1765. The new ones sleep four times, like the common ones, but begin to fpin their cocoons five or fix days fooner: they eat lefs in quantity, but give lefs filk; and as this defect is balanced by the advantage in food, they ought not, fays the Count, to be proferibed. Their cocoons are fmall, but the confidency is good and fine; and their filk is fine and fofter than the common: he fold it for 4 livres or 5 livres a pound more than common filk. There is, however, an evil attends them, which is the uncertainty of their hatching the fecond and third time; fometimes all the feed will hatch, but at others only a part; even only the feventh and tenth of the quantity: but the first hatching is regular, like that of the common worms. A circumflance in the course of his trials deserves noting, that he found the worms of both the old and i w forts would drink water when offered to them, and that the cocoons were the larger for their having had the water.

They have had a fort in Tufcany that hatches twice a year; and the Count writing thither for information concerning them, found that their filk was coarfer than the common, and of lefs value; and he judges them to be a different kind from his own, which hatches three times. The Count concludes nothing determinate concerning them; but refolves to continue his numerous experiments and observations. As there may be perfons who think, as I did at first, when I heard of this fort of worm, that if any succeed in England it would probably be this; it is proper to observe that Count Bettoni had nothing in view but the diseases of the mulberry trees, and does not seem to have had at all in contemplation the evils attending late frosts, depriving the worms of their usual food; and if the common fort may be retarded in hatching (which he shews) till August, equally with the new fort, there does not seem to be any extraordinary advantage in this fort, for a northerly climate, more than in the others. The Count's book * was printed

at Venice in 1778.

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[·] Progetto per prefervare i Gelfi, &c. Co. Carlo Bettoni. 8vo. Various passages.

Sig. Pieropan has made an observation, which deserves noting; mulberries, and likewise other trees, are generally found to succeed much better when grafted a little before sun-set than at any other time: the reason he attributes to the heat of the earth after sun-set; he kept a journal some years of the comparative heat of the atmosphere and the earth, at the depths of sour, twelve, and twenty-sour inches; and has sound, that immediately after the setting of the sun the mercury in those thermometers under ground had always risen some degrees gradually till the rising of the sun, when it as regularly falls.

The following is the Account of the Profit and Lofs of Six Ounces of Seed, for Three Years, at Vicenza, by Sig. Carlo Modena.

		1778.	•					
•		Expence				liv.	f. d:	n.
Semenza—seed, six ounce Foglia—leaves, 26,475 lb					:	36 1545		0
Spefa—gathering leaves a Filare—spinning 992 lb. o	and attend cocoons,	lance, which give	159 lb.	5 oz. fi	lk , -	863 557		0 0
٠						3007	18	٥
		Produ	cc.					
159 lb. 5 oz. of filk, Refuse ditto, 41 lb.	-	•	-	•	•	102	10	0
Seed, 55 oz.	•	•		-	•	330	<u> </u>	-
		Expence,		-	•	457 7 3 007	18 18	0
]	Profit,	•		-	1569	7	0
		1779)•		•			
		Expend	ces.					
Seed, fix ounces, half gi	ven to th	•		inces,		18	υ,	0
Leaves, 15,607 lb. Spinning—the produce	-			-	b. to the	753	9	0
proprietor, 29 lb. o	f filk,	•		•	•	101	10	<u> </u>
		Produ	uce.			872	19	0
29 b. of filk, Reiuse d.t.o,	•		•	-		775	2	0
		Lofs,				97	17	0
							17	80.

Seed, (Leaves Gather Spinnin Reduc

Refuse 118 lo. Leaves Silk ke

This the wo Reaum To I pounds facks o fack, b the facl pound. Pad

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1780.-Upon his own account.

Expences.

	•					
0.16				liv.	f. a	len.
Seed, 6 oz.	• •	•	-	36	0	0
Leaves, 370 facks,	•	•	-	9 57 1	13	0
Gathering and attendance,	-	•	•	1303 1	12	0
Spinning 910 lb. of cocoons,	•	•	-	265	0	0
Reducing 118 lb. 6 oz. of filk i	nto organzine,	•	•	•	10	0
				3013	15	0
	Froduce				-	
Refule filk, -			•	116	4	0
118 is. 6 oz. of organzine,				4325	5	0
Leaves fold,			•	.528	ő	0
Silk kept for own use, 2 lb. 3 or	•	•	•	•	10	0
	_			4518	19	0
	Expences,	•	-	3013	15	٥
	Profit,	•	• •	1505	4	0
	riont,	• .	• •	1505	٠	4

This year the profit would have been much greater; but through the negligence of the women in the night, not attending to the degrees of heat (from 25 to 27 degrees Reaumur), many were fufficated *.

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To Padua.—One ounce of feed gives fixty pounds of galetta (cocoons), and eight pounds to ten pounds of gal. tta one pound of filk: the ounce of feed requires fixteen facks of leaves, of four pefi, each twenty-five pounds; and twelve fmall trees yield one fack, but one great tree has been known to yield fix facks. Price of gathering, 20 f. the fack. Expence of making fixty pounds of filk, 250 livres. Spinning, 30 f. the pound. Cocoons fell at 30 f. to 36 f. Silk this year, 25 livres the pound. fotile.

Padua.—One ounce of feed gives in common thirty pounds of cocoons, and eight pounds of cocoons one pound of filk: twenty facks, of eighty pounds of leaves, are necessary to feed the worms of an ounce of feed. Price of gathering, 20 f. the fack. The greatest trees give ten facks of leaves each; a tree of twenty years four or five facks. It is not the general custom to divide this business with the peasants. The common fort of filk worm is hatched about the 25th of April; the others the middle of June; but filk demands a more expensive operation in the latter season.

Venice.—There are three forts of filk worms:—1. The common one, which casts its epiderm, or sleep as it is called, four times. 2. A fort known at Verona, that casts only three times; the cocoons smaller than those of the other fort. 3. The new fort mentioned by Count Carlo Bettoni, the feed of which hatch two or three times a year; but the others only once. The feed of the two first forts cannot be hatched the same year

it is dropped; but that of the third will hatch of itfelf, if it be not carefully kept in a cool place.

Bologna.—One hundred pounds of cocoons are made from one ounce of feed, and yield feven pounds and a half to eight pounds and a half of filk, of twelve ounces. Price of cocoons, twenty to twenty-five baiocca. Silk, thirty-four pauls, at 6d. the pound.

Tuscany.—Florence.—Making inquiries here concerning the new fort of filk worm, I found that they were not, as I had been before told, a new discovery in Italy, but known long ago; and, what is remarkable, is prohibited by law, in order to preserve the mulberry trees from being stripped more than once. The filk made from them is not more than half as good as the common, and very inferior in quantity also. They affert here that by means of heat they can hatch the eggs of the common fort when they please, but not for any use, as they die directly; which is not the case with the new species, or that as it is called di trè volte.

Their contrivance for winding filk is very convenient, and well adapted to fave labour; one man turns for a whole row of coppers, the fires for which are without the wall; and the closets with small boilers of water, for killing the animal in its cocoon by steam, are equally well adapted.

At Martelli, near Florence, on a farm of one hundred and ninety fliori (thirty-four acres) there are forty or fifty mulberries, enough for one ounce of grain, which gives fifty pounds or fixty pounds of cocoons, and fix pounds or feven pounds of filk. Price of cocoons this year, 2 pauls the pound; last year 2; and in 1787 it was 3 pauls. In the culture of the trees they do not practice such attentions as the French in Dauphiné; they never dig about them, except when young; never wash the sterns; they prune the trees when necessary, but not by any rule of years. The best fort is the wild mulberry, but it yields the least quantity; next, the white fruit.

In 1782, Sig. Don. Gio. Agemi di Giun, prelate of the Greek Catholic church, on Mount Libanus, exhibited to the academicians Georgofili of Florence, the 4th of December, some filk worms, in number thirty eight, part of which had already made their cocoons, and part ready to make them, as accustomed to do in his own country, with the leaves of the wild mulberry. The feed was hatched in October: the worms fed with leaves, procured from warm gardens; cocoons were made in November; mallow leaves were used also.*.

MODENA.—The export of filk from the city forty-fix thousand pounds, at 38 livres (4d. each); from the whole territory, fixty thousand zecebini.

PIEDMONT.—Pave/e.—Immediately on entering the dominions of the King of Sardinia, within two miles of St. Giovanne, mulberries are found regularly every where, and continue to Turin. Seven-eighths of them are about twenty or twenty five years old; fome however are amongst the largest I have seen.

Lombardy Poplars.

They are very fearce throughout Lombardy; there is a feattering between Modena and Reggio; and Count Tocoli, five or fix miles from Parma, planted feveral thousands, along a canal, on the birth of his daughter, for her portion, but there is not in any part of Lombardy, any law which in such cases secures the groperty of the trees thus planted, to the child they are intended for; it is merely private considence.

• Corjo, vol iii p. 123.

Clover.

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VOL. IV

Clover.

PIEDMONT.—Chentale.—Such is the power of climate united with the advantages of irrigation, that clover is here mown for hay once after harvesting the corn it grew with; the hay is not of the best quality, but useful.

MILANE.E. — Milan to Pavia. — On the rich dairy farms, the cows are fed much on clover. The red fort is fown, which wearing out, white clover comes fo regularly, that the country people think the one fort degenerates into the other.

Vicenza.—They fow twelve pounds of feed per campo with wheat; it is cut twice the first year, yielding one carro each cut; the fecond year it is mown thrice: per 44 livres the carro, which is one hundred pess, of twenty-sive pounds.

Padua.—Sow twelve pounds groffo per campo (fourteen pounds or fifteen pounds per English acre) it gives three carri, each one thousand pounds, at three cuts (one ton and a half the acre English;) but they have crops that go much beyond this,

Figs.

PIEDMONT.—Nice to Coni.—On this range of the Alps, there are, in favourable fituations, a great quantity of fig trees; and the extreme cheapness of the fruit must be of no trivial importance in supporting the people, not only while ripe but dried.

Hemp and Flax.

PIEDMONT.—Chentale.—A giornata (to an acre as 7440 to 7929) produces two hundred pounds for the proprietor, and as much for the farmer; and some crops rise to six hundred and fifty pounds. They gather the semale hemp from the 25th of July to the 4th of August: the male the beginning of September. Of some pieces I was informed that a produce not uncommon was thirty rubbii of semale, and seventeen of male, worth 4½ livres to 5 livres the rubbio, both of the same price; and also twenty-sive to thirty mine of seed, if well cultivated; but if not, twelve to sisteen. The mine thirty-sive pounds, and the price 4½ livres to 5 livres the mine. The common calculation is, that a giornata is worth 150 livres to 200 livres, which may be called 10l. per English acre. Their contrivance for steeping is very simple and effectual: there are many square and oblong pits with posts in them, with open mortises for fixing poles to keep down the hemp, which is vastly preferable to our sods and stones.

Turin.—They fow three mine (forty-five pounds of wheat) and get thirty rubbii, at 4 livres 10 f. to 4 livres the rubbio grofs; but ready for spinning 12 livres 10 f. the finest; the second quality is 7 livres 10 f.; and the third 5 livres; besides three mine of seed, at 2 livres each. This product is above 81 the English acre.

MILANESE.—Mozzata.—Winter flax is here esteemed the properer for land that is not watered; they sow it in the middle of September; they have had it in this country two years only, and call it lino ravagno. It gives a coarser thread than spring flax, but a greater quantity, and much more seed. The price of the oil 22 st the pound, of twenty eight ounces; of the flax ready for spinning, 25 st or 26 st; of the thread, 4 livres and 4½ livres. A quartaro of seed is necessary for a pertica, for which it returns eight times the quantity of seed, and twenty pounds of flax ready for spinning, at 25 st the pound.

VOL. IV.

4 I

Godogne.

Codogno. — When they break up their clover lands they fow flax on one ploughing, which is worth rent 20 livres and crop 40 livres per pertica, being twenty-four pounds of twenty-eight ounces and feed three times more than fown. Much winter flax now green.

VENETIAN STATE. - Bergamo. - Winter flax green in October.

ECCLESIASTICAL STATE. - Bologna. - The territory of Bologna produces from twelve to fourteen million pounds of hemp. They manure for it highly with dung, feathers, the horns of animals, and filk-worms' refuse. The best hemp-land is always dug; the difference beween digging and ploughing is found to be very great. If ploughed, three earths are given; when the spade is used, the land is first ploughed and then dug. For this crop five or fix yards are left unfown under the rows of trees. The foil agrees fo well with this plant that the crop rifes ten feet high; they gather it all at once, leaving only a few stands for feed. It is watered in stagnant pools. A good product is from one hundred pounds to two hundred pounds of twelve ounces per fornatura, or half an acre. The price of the best is from 20 livres to 27 livres the hundred pounds. At present 25 livres (the English pound one fifth larger than the Bolognese, and the livre of the Pope's dominions is ten to the zecchin, of 9s. 6d.) ready for combing. When ready for spinning, the price of the best is 12 s. the pound; and they pay for spinning such 6 s. to 15 s. the pound. Near the city I viewed a field famous for yielding hemp: no trees are planted across it, which is so common in the country in general; a fure proof of the pernicious tendency of that fystem; fince in very valuable fields these people themselves reject the method. Little or no hemp on the hills near Bologna, but some autumnal flax for family use.

Maize.

PIEDMONT.—Chentale.—Maize produces here twenty-five to thirty mine, which holds forty-seven pounds of wheat, and the price 2 livres each. It is fown on three feet ridges.

Savigliand.—Maize, in a good year, will yield three hundred fold, but in a dry one

fometimes scarcely any thing.

Turin. - Made every where the fallow, which prepares for wheat.

Chivasco to Verceil. - A great deal of maize through all this country, and all foul

with grafs and weeds, even to the height of two or three feet.

MILANESE.—Milan.—They fow much maize, of the fort called quarantino, from its ripening in forty days (which however it does not). They fow it the middle of July, after wheat, which they cut the first week of that month. If the common maize were fown at this time, they affert that it would yield no ripe feed: this is a very curious circumstance. The culture has been often recommended to England; if ever any thing were done, it must affuredly be with this fort; but even with this I should put no faith in the power of an English climate.

Mozzata.—They cultivate three forts:—1. Formentone maggengo, fown the beginning of May, and reaped in October. 2. Formentone agostano o formentone de ravettone, because sown after taking off the rave or coleseed for oil, the end of May, and harvested the end of September. 3. Formentone quarantino, sown after wheat or rye, and cut

the end of October.

Venice.—This plant was cultivated in the Polefine de Rovigo, towards 1560; and fpread through Lombardy the beginning of the feventeenth century .

· Agoft. Gallo. Notes, p. 534.

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Olives.

STATE OF VENICE.—On the banks of the Lago di Guarda are the only olives I have feen fince I left the country of Nice; but the number is not confiderable, and most of them are dead or nearly so, by the frost of last winter, which made such destruction likewise in Fance.

Tuscany.—Near Florence, at Martelli, the product of a farm of 190 stiori was as follows: in 1786, thirty barrils. In 1787, it was no more than three. In 1788, it yielded eight. In 1789, it was twenty-five but on an average ten; for which produce there are two hundred trees. They are dunged every two or three years, and dug about once in three years. They are reckoned to lessen the product of corn one fifth; this is a notion of the country, but I believe very far from accurate. The average price of oil is 5 scudi per barril, of one hundred and fifty pounds (11. 8s. 4d.); ten barrils amount to 14l. 3s. 4d.; and as there are about thirty-four acres in one hundred and ninety stori, the product of oil is 8s. to 9s. per acre: a sum that yields no very favourable impression of the culture:—and, divided amongst two hundred trees, it does not amount to 1s. 6d. a tree.

The plain of Florence is all lined into rows of these trees, with vines between and upon them; in some places, an espalier of vines between the rows of olives; and when all are well cultivated, the olives yield the greatest produce, next the wine, and then the corn. I viewed, near Florence, some fields, in which I found twenty olives on a stiora of land, but this is not common: and on a very bad stony foil, though in the plain, I found that it took twenty trees of twenty-five years growth to yield a barril of oil. But in a fine soil, and with very old trees, a barril a tree has been known. Vines are suffered here also to run up the trees, but they reckon it a bad custom. The price of oil is more than doubled in forty years. Very sew olives were lost by the last hard frost, but great numbers by that of 1709. Landlord's half produce of some fields-I viewed—oil, 10 pauls; grain, 7; wine, 1; in all 18 pauls per stiora (21. 5s. per English acre.)

This year, 1789, the Grand Duke, for the first time, has given a goldamedal, of the value of 25 zecchini, for the greatest number of olives planted; no claimant to be admitted for less than five thousand: in consequence of this premium above forty thousand trees have been planted. It will be continued annually.

There is, in the Maremma fome remarkable inflances of the vaft age to which olives will attain: Sig. Zucchino, professor of agriculture at Florence, informed me that, upon examining the hills in the middle of that tract, he found in the midst of woods, and almost over-run with rubbish, olives of so immense an age and magnitude that he conjectures them to have been planted by the ancient Hetruscans, before the Romans were in possession of the country; there must, of course, be much uncertainty in any conjectures of this kind, but a great antiquity of these trees is undoubted.

Rice.

PIEDMONT.—Giglione to Verceil — They are now threshing rice with horses, as wheat in Languedoc; - thresh as much in the night as in the day: — meet also gleaners going home loaded with it. About five miles before Verceil the rice-grounds are in great quantities: their culture, however, of this crop seems to want explanations. Here is, for instance, a great field, which was under rice last year, now lest to weeds, with hogs feeding.—Why not sown with clover among or after the rice? They never plough

but once for rice. The peasants are unhealthy from the culture, yet their pay not more than 24s. to 30s. a day. The foil of the rice-grounds here is that of a fine loamy turn p fand; there is a mound raised around them, for the convenience of slooding at will.

Vercelli.—Rice is here reckoned the most prositable of all the cultivation of Piedmont; for it yields a greater value than wheat, and at a less expence. It demands only one ploughing, instead of several. Seed only four mine, at 1 livre. Watering at 2 livres 5s. Cutting, the end of July, 10s. The product is sixty mine rough, or twenty one white; the latter at 4 livres, or 84 livres; and four mine of a fort of bran, at 15s. or 2 livres, in all 87 livres (something under 5s. an acre). It is sown three years in succession, and the fourth a fallow, during which the land is dunged. The price of these lands 500 livres or 600 livres the giornata. As rice can be sown only on land that admits watering at pleasure, I do not fully comprehend this account. Why, for instance, is not the land laid down for meadow, which evidently pays much better, and sells at a higher price? I suppose rice is ready money on demand, and meadows must be converted to cash circuitously. Good wheat land sells at 800 livres.

To Novara.—Passing the Sesia, which exhibits a bed of five times as much gravel as water, in three or four miles the quantity of rice is considerable: the stubble is green, and in wet mud; the sheaves thin. It extends on both sides the road for some distance; the whole inclosed by ditches, and rows of willow poplar pollards, as bad to the eye as it can be to the health. One or two sides are not yet cut; it looks like a good crop of barden, being beauty.

barley, being bearded. After Novara, see no more of it. MILANESE.—Milan to Pavia.—The rice-grounds receive but one ploughing, which is given in the middle of March, and the feeds fown at the end of the fame month, in water to the feedsman's knees, which is left on the ground till the beginning of June, when the crop is weeded by hand, by women half naked, with their petticoats tucked to their wailts wading in the water; and they make fo droll a figure, that parties in pleasantry, at that feafon, view the rice grounds. When the weeding is finished, the water is drawn off for eight days; and it is again drawn off when the ear begins to form, till formed; after which it is let in again till the rice is nearly ripe, which is about the end of August, when it is reaped, or in the beginning of September; and by the end of that month, all is finished. Quantity of feed, the eighth of a moggio per pertica, produce twenty-five to thirty meggio rough, or eleven and a half or twelve white. Price 371 livres the moggio, (171. 8s. per English acre,) which produce is so large, that this minute I suspect the highest crop gained, and not an average one. The moggio of rice weighs one hundred and sixty pounds of twenty-eight ounces. The straw is of use only for littering cows; and the chaff, like that of all other grain, from a notion of its being unwholefome, is thrown on to the dunghill. They fow rice three years in fuccession, and then a course of something else. See Courses of Crops. The rice is rendered merchantable

by being pounded in a mill by flampers, turned by a water-wheel.

In the great road there is a flone, at five miles from Milan, nearer than which it is

prohibited to fow rice.

STATE OF VENICE.—Verona.—Of the produce of the rice-grounds in the Veronese,

they reckon one-third for expenses, one-third for water, and one-third profit.

PARMA.—Count Schaffienatti has fown rice, at Vicomero, eighteen years in fuccession on the same land, without any rest or manure. Sow on fifty four biolechi ninety staji; and the produce eighteen for one. He digs the ground, as it is too marshy to plough it well; this costs 3000 livres (each 2 d.) The straw fells at 80 livres the load, of eighty pession for twenty-five pounds (three-fourths of a pound English). Oxen also cat it. Rice is

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Vines, ne campo; the ing to near the damage Padua.—

that vines p mulberries that of Pad adapted to reckoned to yield four times over more nett profit than any other husbandry, more even than watered meadows.

Vines.

PIEDMONT.—Antibes to Nice.—A fingular cultivation of this plant furrounding very fmall pieces from fix to twenty perches, trained up willow trees; and the scraps of land within them cultivated. What a sun must shine in a country where thick inclosures are counted by perches and not by acres.

Chentale to Racconis.—In rows at twelve to twenty feet, and appear like those of hops in Kent, supported on willow poles, twelve feet high, some of which take root, but are afterwards pulled up.

Chivafco.—Vines fastened from mulberry to mulberry, but not running up these trees, only up willows, &c. that are between them.

MILANESE.—Mozzata.—Half this country is lined with vines, and it is reckoned that they will damage to the amount of one tenth of the produce: each pertica of vines, in a common year, will give fifty pounds of grapes, worth 6 livres the one hundred pounds of twenty eight ounces, hail allowed for; and of this half is the peafant's thare for the expence of culture. At Leinate I viewed some wine-presses, which are enormous machines; the beam of one is forty-five feet long and four feet square, and at the end where the screw is, a stone of vast weight, for which there is a paved hole in the pavement, that it may keep suspended; the cuves, casks, and all the apparatus great: the quantity of vines one thousand pertica. The seeds of the pressed grapes are kept till dry, and then pressed for oil; the seed of the grapes that yielded seventy brenta of wine will give ten pounds of oil: it is used for lamps. The poor people who bring their grapes to be pressed pay one-twelfth of the wine. Price at present 6 livres the brenta, but only 3 livres for what is last pressed. The first flow is trod out by men's feet. Common price to livres or 12 livres the brenta.

VENETIAN STATE.—Bergamo.—From entering the Venetian territory, near Vaprio, the country is almost all planted in lines of vines, and the spaces between tilled for corn.

To Brescia.—This country, inclosed with hedges, besides which it is lined in stripes of vines that are trained to low ash and maple trees, with mulberries at the end of every row; but the vines are not trained up these trees, though fastened to their trunks.

Vicenza.—The country, for thirty two miles from Verona to Vicenza, except the watered parts, which are not a tenth of the whole, is lined into rows of pollards, each with three or four fpreading branches, and at the foot of each two vines, many of them very old, with stems as thick as the calf of a man's leg; and many of the elms, maples, &c. are also old. They stand about a rod asunder, and the rows from twenty five to thirty yards, and around the whole mulberries. Where the vintage is not finished, the vines hang in festoons from tree to tree, garnished with an astonishing quantity of bunches of grapes.

Vines, near Vicenza, produce two mastati, each of two hundred and forty bottles, per campo; the price 16 livres the mastato; the campo here is larger than at Verona, amounting to near an English acre; this is about 17s. an acre, a produce very easily lost in

the damage done to the corn.

Padua.—The fame husbandry of pollards and vines continues hither. They reckon that vines pay better than mulberrries; but in the districts of Verona and Vicenza mulberries are more advantageous than vines. This does not correspond with foil, for that of Padua is deeper and richer, for the most part, than the other, and therefore less adapted to vines. In conversation with Abbate Fortis, on the wine of the Paduan, &c.

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being fo bad, he fays, it is owing merely to bad management in making. They tread the grapes with their feet; and will keep it fermenting there even so long as fifteen days, adding every day more and more, till the strength is exhausted, and the wine spoiled: no cleanliness in any part of the operation, nor the least attention in the gathering, or in the choice of the grapes. He further added, that Sig. Modena, a Vicentino cultivator at Vancinuglio acjoining the rice-grounds, and confequently as little adapted as poffible to vineyards, provided the foil and trees were the cause of bad wines, makes that which is excellent, and which fell for so high as 30 f. French per bottle: that Sig. Marzari, and Sig. il Conte di Porto, in the high Vicentino, with many others, as well as he himself, Abbate Fortis, has done the same with raisins from vines that run up the highest trees, such wine as sells from 20 f. 35 f. French the bottle: and that some of these wines are so good, that the Venetian ambassadors, at different courts, use them inflead of Madeira, &c.; and the wines of Friuli as those of Hungary, which they resemble; yet these vines are all on trees. He also observed, that it has been found, by experiment, that vines in thefe rich lands, trained near the ground, as in France, have yielded raifins and wine good for nothing; that the grapes even rot; that the land is too rich for the vines to have all the nourishment, unrivalled by the root of the trees. It is very much to be questioned, if the experiments here alluded to have been made with due attention: if the land is too rich for vines, plant them upon foils that are proper; and keep these low districts for grass and corn; but that vines, hidden from the fun amongst the branches of trees, can ripen properly to give a well-concocted juice, appears very dubious; and the fact of all the wine, commonly met with in this country, being bad, feems to confirm the reasoning.

ECCLESIASTICAL STATE.—Bologna.—All this country, where I have viewed it, is lined into rows of trees for vines, ten or twelve yards afunder on the mountain, but more in the plain. But Sig. Bignami has his vineyard planted with cchalats (poles), in the French way, about four or five feet fquare, and he finds that these always give better wine than the vines trained to trees, and the land by tornatura gives a great deal more wine, though each vine separately on trees gives more than each in this method. The object in this instance was the goodness of wine; Sig. Bignami thinks the common method most profitable. The vines are now (November) trained and pruned, and turned down five or fix feet and tied; if allowed to mount, they yield much sewer grapes. Vines on the mountains yield thrice the value of the wheat, and the double of all other productions, wheat included.

Tuscany.—Bologna to Florence.—Vines in this route are planted differently from any I have yet feen. Some are in efpaliers, drawn thinly across the fields; others are trained to small posts, through which at top are two or three slicks fixed to hold them up; others are in squares of sive or six feet, and six or seven high, without such posts; but all in the arable fields are, generally speaking, in lines.

Florence.—I here met with a cafe abfolitely in point to prove how mischievous trees are to corn, even in this hot climate. A field under olives, which yielded in corn fix and a half for one sown, was grubbed, after which the common produce was fourteen for one. Now, as the olive is by no means one of the worst trees for corn, this shews the great loss that accrues from the practices I have noted throughout Lombardy. Yet in common conversation here as elsewhere, they tell you the injury is small, except from walnuts, which do more mischief than any other.

Modena.—It appears to be a fingular circumflance, that in the parts of this territory, near the hills, corn pays better than wine, but in the plain, wine better than corn: I fuspect that some milmanagement occasions this apparent contradiction. From Modena

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to Reggio the country is planted in rows, as in the Venetian State, &c. and the trees

that support the vines being large, the whole has the appearance of a forest. PARMA.—From Reggio to Parma, the fame fystem holds, but executed in an inferior manner. And from Parma to Vicoinero, the trees that support the vines are pollards, with old heads, like many we have in England, contrary to the practice of the Venetian State, where they are kept young. To Firenzuolo, the vines are all buried in like manner; fome here are planted for props, and the poles which ferve as fuch are let in rows: in both methods the fhoots are equally buried. A feattering of golden willow in the rows, I suppose for attaching the vines to the props. From Borgo St. Domino to Firenzuola, there is a decline both of vines and wood; the country is not as hitherto, regularly lined, and many large fields are without any; this is the more to be remarked, as here begin for the inequalities of the country, the gentle ramifications of the Appenines. To Castel Giovanne, most of the fields have no vines, only a scattering; shoots buried as before, but the inclosures have many pollards in the hedges, like the woodlands of Suffolk. From Piacenza, after passing the Trebbia, the rows of vines are thirty to forty yards afunder, with heaps of props ten feet long, fet like hop-poles; very few or no vines trained to trees.

Ptedmont.—Pavefe*.—The country is all the way hill and dale, the flat of Lombardy finishing with the Dutchy of Piacenza. It is about half inclosed, and half with rows of vines. There are also vineyards planted in a new method; single row of vines, with a double row of poles, with others flat, so as to occupy four ridges and then four to ten of corn. Some vine shoots buried for a few miles, but afterwards none. Near Stradella the props appear like a wood of poles.

SAVOY.—The vineyards of Montmelian yield one and a half tonneau per journal, which fell at 4½ louis the tonneau: all, not in the hands of peafant proprietors, is at half produce.

SECT. IV .- Of Implements and Tillage.

Coni.—The ploughs have a fingle handle, twelve or thirteen feet long, which throws the ploughman to such a distance behind, that his goad is fixed in a long light pole. The oxen are yoked in the same manner as ours, but the bow is of iron under the neck, and the pressure is received by two bits of wood. Some ploughs drawn by a yoke, others by two yokes of oxen.

Chentale.—The names which are given to the parts of a plough here are,—long handle of fourteen feet, fiva; beam, bura; head, cannonlia; coulter rivetted to the share, cultor; share, massa; ground-rest, on which the share sheathes, seven feet long, dentale; earth-board, sive feet long, oralia.

The Count de Bonaventa, in explaining to me their tillage, shewed the criterion, as old as Columella, of good ploughing, by thrusting his cane across the ridges, to see if rest-baulked. They plough mostly on the three feet ridge, forming and reversing at one bout, i.e. two furrows, the work strait. Use no reins, and have no driver, though the ploughman is above twenty feet from the oxen. Two small beasts cut a good surrow on the top of the old ridge, seven inches deep, and these ploughs, long as they are in the ground, certainly do not draw heavily.

The oxin, whether at plough or in the waggons, do not draw, as I conceived at first fight, by the shoulder, but in a method I never saw before, nor read of; they draw by

^{*} The country ceded by Austria to Sardinia, part of the district of Pavia,

prefling the point of the withers against the yoke, and not at all by the bows; and in examining them, the master and man contended that the strength of an ox lies there, and not in his shoulders, nor in his head, or roots of the horns. It appears a strange practice, but it is yet stranger, that yoke a beast how you will, he does his work, and apparently without distress.

Chentale to Racconis.—They have here a most singular custom, which is that of showelling all the moveable soil of a field into heaps of a large load, earth, stubble, and weeds; they say, per ingrassure la terra.

To Turin.—The lands fown with wheat, on three feet ridges, is worked fine with a machine of wood, at the end of a handle, formed nearly like a hoe. Wherever one fees these operose niceties, we may conclude the farms are very small.

Turin.—Plough with a pair of oxen, no reins, no driver; go to work at five in the morning, and hold it till night, except one hour and a half at dinner, that is twelve hours work, and do a giornata a day, fomething under an acre, one bout to a three feet ridge, reverfing.

Vercelli.—Price of a ploughing, 31 livres per giornata, this is about 3s. 4d. per

English acre.

MILANESE.—Milan to Pacia.—Hire of a ploughman and pair of oxen, 4 livres a day, but if no food for the oxen, 6 livres. The ploughs here vary from those of Piedmont. The handles are not above half as long, and are called fliva; the beam, buretto; the coulter, coltura; the share; massume in the earth-board, orechio; the land-board, orechini. There is a most gross and absurd error in all the ploughs I saw, which is the position of the coulter, eighteen or twenty degrees too much to the land; every one who is acquainted with the right structure of a plough, knows that it should just clear the share; this great variation from the right line, must add greatly to the drast; and in difficult land fatigue the cattle.

Mozaita.—A light poor plough, the share with a double sin, but so narrow as to cut only sour inches of the surrow, the heel of the plough is nine or ten inches wide, the work it performs is mere scratching, and the land they were sowing with wheat, a bed of triticum repens and agrostis stolonisera. They have here a great opinion of digging; and a proverb which says, La vanga ha la punta d'oro.—The spade has the point of gold.

Codogno.—Here as near Milan, the coulters are many degrees out of the line of the

fhare, and the shares not more than four inches wide. Shocking!

Codegno to Crema.—The harrows in this country have handles to them of wood; I am amazed that this practice is not universal; yet I never saw it before, except on my own farm.

VENETIAN STATE.—Bergamo.—In passing from Vaprio to this place, they are ploughing with a pair of oxen a breast, and two horses before them in a line; wheel-ploughs, share five inches wide, and with a double fin. Near the town of Bergamo, I saw them ploughing a maize stubble for wheat, as full of grass almost as a meadow: a lad drives, and another stout one attends to clear the coulter from grass, &c. the plough low on the carriage, with wheels, the breast all iron, and not ill formed, the fin of the share double, and about eight inches wide, the coulter nearly in the same direction as the share, but clearing four inches to the land side, two short handles. The surrow sull nine inches deep, but crooked, irregular, and bad work. Notwithstanding this depth, they are great friends to the spade. From sour to six for one, are common crops with the plough, but twelve to sourcem for one are gained by the spade. There must be an inaccuracy in this, the difference cannot be owing merely to digging. We may be certain that the husbandry in other respects must be much better.

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VOL. IV.

Vicencia. — They here plough with four oxen in harness, many of them are of an irongrey colour, with upright thick ugly horns. Some however are fine large beafts. —
Their plough is a strange tool; it is two feet four inches of Vicenza wide (their foot is
above one and a half English): the share has a double fin of a foot wide, consequently
cuts half a foot in the furrow of more than two; has wheels, but no coulter. The landboard is called fondelo; the share, vomero; the earth-board, or breast, arsodeman; two
short handles, the left sinistrale; the right brancolé; the beam, pertica.

ECCLESIASTICAL STATE.—Bologna.—The coulters of the ploughs here stand sixteen degrees from the right line, an incredible blunder, had I not before met with it in the Milanese. The beam, pertica; the handles, siva; the mould-board, asfa; the share,

gomiera; the ground-rest, nervo del socco; the coulter, coutre.

Tuscany.—Florence.—Here the beam is called stanga, and bura; the fingle handle, stagola; the body of the plough, chicapo di aratro; the share, vangbeggiola. The body is hewn out of one large piece of wood, the fin double, and seven or eight inches wide. I see no ploughing but on three feet ridge-work, reversing. They are now sowing wheat among tares, about six inches high, and plough both in together at one furrow, splitting the ridges with a double-breast plough. Oxen are used that draw by the nape of the neck; then women with a kind of half pick, called marona, work the ridge sine. No dressing of the seed against smut, &c.

PARMA.—The plough here has wheels, a fingle-breaft that turns to the right, and pretty well, a double finned share, and the coulter standing three inches to the left of the

right line; drawn by two oxen, and two cows, with a driver.

Savov.—The oxen in the vale of Chamberry, draw not only by the horns, the yokes bound to them in the common way by leathers, but they have a double bar, one against the shoulders, as if the beast might be able to draw by both at pleasure.

Manures.

Nice.—There is here a greater attention paid to faving and using night soil, than even in Flanders itself. There is not a necessary in the town which is not made an object of revenue, and reserved or granted by lease. In all the passages between the walls of gardens in the environs, are necessaries made for passages. The contents are carried away regularly in barrels, on assessaries, and being mixed with water, is given regularly to the vegetables of the gardens. The last winter having damaged many orange trees, they pruned off the damaged branches, and to encourage them to shoot again strongly, the roots are dug around, and at the foot of each tree a good mess of this invigorating manure is buried.

MILANESE.—Milan.-Night foil is greatly valued, it is bought at a good price, and

fpread on fowing wheat.

STATE OF VENICE.—Vicenza.—Sig. Giacomello has tried gypfum with fuccefs, broken fmall and calcined in an oven, also in a lime kiln, pulverises it finely and fifts it. He remarks that this is the chief use of calcination. Uses it for clover, lucern, and meadows; sows it as a top dressing on those plants, just as they rise; never buries it; mixes with fand, in order to spread equally; best to sow it when the land is dry, never when the plants are high and wet; quantity, one hundred and forty pounds grass, never when the plants are high and wet; quantity, one hundred and forty pounds grass, upon one thousand two hundred and fifty taveli of Treviso. If the land is bad, three hundred pounds, and on middling, two hundred pounds. The essect on perennial clover, upon good land, is such, that any greater crops would rot on the ground. The same quantity of meadow you. Iv.

that gives without gyplum, a carro of hay, will, with that manure, fpread about the 11th of November, produce two carri the year following; three carri the year after that; and on some meadows even to four carri. On old poor meadows, full of hard and bad grasses, this manure does not take effect so soon, and requires a larger quantity of gypsum. (Modi di aumentare i Bestiami, 1777, p. 9.)

Sig. Pieropan informed me that this manure has been used here for eight years with much success, especially on all dry lands, but is good for nothing on wet ones; it is supposed to ast by attracting moissure; four hundred pounds of twelve ounces are spread or a campo; best for clover, wheat, or natural grass. It is said to force land so much, that it demands more dung than if no gypsum had been spread.

Parma to Piacenzo. - The dunghills in this country are neatly fquared heaps.

CHAP. XXXIV .- Of the Encouragement and Depression of Agriculture.

IN every country through which an inquisitive man may travel, there can be no object of his inquiries more important than these—How far is government, and all the circumstances any way dependent on government, savourable or unsavourable to the culture of the earth? In truth, this question involves the whole circle of the political science. In so immense a range, it is in the power of an individual to give but a few sketches, which may afterwards, by some masterly hands, be melted into one harmonious piece. All the writings on political economy which I have hitherto read, are filled too much with reasonings, yet experiment ought to be the only soundation. The facts which I have collected under this head, may be thus arranged:—1. Government.—2. Taxation.—3. Tythe.—4. Commerce.—5 Population.—6. Prohibitions.—7. Prices of commodities.

SECT. I. - Of Government.

It is a vulgar error of no inconfiderable magnitude, to imagine, as many writers have done, that all arbitrary governments are the fame. Whoever travels into countries under various forms of dominion, will find from innumerable circumfances, that ftrong diffinctions are to be made. The mildness of that of France can never be miftaken, which was to tempered by what was the manners of the people as to be free in comparison with some others. Among the Italian states the difference will be found to be confiderable.

The dominion of the house of Austria has been by some considered as hard, harsh, and unfeeling, till the admirable Leopold retrieved, by the wisdom and humanity of his government in Tuscany, the character of his House. By the constitution of Milan, no new tax could be affessed or levied without the consent of the States, but Mary Therefa, about the year 1755, abolished the States themselves, which never were restored till Leopold came to the throne. It may easily be conceived, that such a system of desposition was followed by measures that partook its spirit; the general farms, by which I mean the farming of the taxes, which had from the beginning of the present century been grievous to the people, became doubly so about the year 1753, when new ones were citablished. The administration of these farms was cruel, or rather infamous; and the ruin brought on numbers for the smallest infraction of the regulations, spread a horror against the government through every corner of the Milanese, and tended strongly to occasion a declension in every source of national prosperity. The abolition of these farms

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was the work of the Emperor Joseph, who heard such a reiteration of complaints against the farmers, whose great wealth * rendered them doubly odious, that he made such representations to his mother as were effectual, and they were abolished about eighteen years ago. The present Emperor no sooner came to the throne, than he re-established that constitution of which his mother had deprived the Milanese; the States and the Senate were restored, and also the right of the States to appoint what is called an orator to Vienna, in fact, an ambassador paid by themselves, to lay their representations before the court without the intervention of a governor, a right which cannot be deemed unimportant. So that at present the government of Milan, though by no means such as can meet our ideas of freedom, is yet a kind of limited monarchy; for affuredly that government which does not posses the power of taxation, must be esteemed such.

Count Firmian, while prime minister for the Milanese, was the author of a law, which, if it could be adopted in England, would be worth an hundred millions to us. It obliges all communities, &c. that possess waste or uncultivated lands, to sell them to any one that offers a price, in order to cultivate them, but they have the necessary liberty of publishing the price offered, and receiving proposals of a better; a fair auction takes place, and the lands become cultivated. Such possessor wastes are even obliged to let them at an annual rent for ever by the same process, if any offer of rent is made to them, be it as low as possible. And the effect of this excellent law has been the cultivation of many wastes, but not all; for on returning from Mozzata to Milan, I passed a very extensive

one, highly capable of profitable cultivation.

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VENICE. - The celebrated government of this republic, is certainly the most respectable that exists in the world, in point of duration, since it has lasted without any material change, and without its capital being attacked for 1300 years, while all the reft of Europe and of Asia has been subject to innumerable revolutions, and the bloodiest wars and massacres, even in the very seat of empire. That duration is one of the first objects of a government, can never admit a doubt, fince all other merit, however it may approach human perfection, is nothing without this. A well organized ariftocracy, in which the greatest mass of the wisdom of the community shall be found in a senate, seems from the vast and important experiment of this celebrated republic, to be effentially necessary to secure the duration of any government. But the duration of an evil becomes a mischief instead of an advantage; and that tyranny which is so politically organized as to promise an immenfe duration, is but the more justly to be aboninated. The knowledge which will refult from long experience, may probably teach mankind the right composition of a mingled form, in which the ariftocratic portion will give duration and firmness; the democracy, freedom; and the conformation of executive power, energy and execution. Perhaps the British government approaches the nearest to such a description.

The reputation of the Venetian government is now its only support, a reputation which it does not at present merit in the smallest degree: but as this idea is directly contrary to the accounts given by many travellers, I feel it necessary to premise, that I should think it merely trifling with the reader to travel to Venice in order to write differtations in my own name, on the government of that republic; I do no more than hold the pen to report the opinions of Italians, on whose judgment I have every reason to rely, and as exaggerated panegyrics have been published of the government of this State, it is fair to

hear what may be urged on the other fide of the question.

^{*} One of them now living, Count ide Crepy (what a plague have such fellows to do with titles, unters to be written on the gallows on which they are hanged?) has between 20 and 30,000 zeechini a year in land. He was originally a poor boy, that fold cloth on a mule at Bergamo; one of his commis made 100,000 zeechini.

For twenty years past, there has been in the republic little more than a multiplication of abuses, so that almost every circumstance which has been condemned in the arbitrary governments of Europe, is now to be found in that of Venice. And as an instance of the principles on which they govern their provinces, that of Istria was quoted. 1. To preferve the woods (which belong to the Prince), they prevent the people from turning any cattle into them; and if any man cut a tree, he is infallibly fent to the gallies, which has driven numbers out of that part of the country where the woods are fituated .--2. There are great opportunities of making falt, and the pans might be numerous, but it is a monopoly held by the State; they purchase a certain quantity, at 10s. French, perquintal, and if more than the specified quantity be made, it is lodged in their magazines on credit, and it may be two, three, or four years before the maker of it be paid.— 3. Oil is a monopoly of the city of Venice; none can be fold but through that city, by which transit, an opportunity is taken to levy two ducats (each 4 livres of France) per barrel of one hundred pounds, and five more entrée into Venice.—4. The coast abounds... remarkably with fish, which are taken in almost any quantity; falt is on the spot, yet no use can be made of it but by contraband, except for Venice singly. Thus a great trade in barrelled fish is foregone, in order to make a whole province beasts of burthen to a finglecity.—5. The heavy tax of a flajo of wheat, one hundred and thirty pounds, is laid oneach head of a family, payable to the Venetian bailiff.

The practical refult of fuch principles of government, confirms whatever condemnation theory could pronounce. Every part of the province, except a district that is more favoured than the rest in soil and climate, is depopulated; and so much are the woods preferred to the people, that parts which once abounded with men, are become deferts; and the small population remaining in other parts, is every day diminishing. Dalmatia. is in a yet worse state; for the greater part is a real desert: in 1781 and 1782, no lessthan twelve thousand families emigrated from the province. As I have not travelled in these provinces, I do no more than report the account given by well-informed Italians, though not residing in the territories of the republic. Before the government of this stern. aristocracy is made the subject of exaggerated praise, let sacts counter to these be made,

the foundation.—But farther,

In the immediate operations of their government at home, the same weakness is found. Their poverty has increased with their revenue; they have raised the leases of the tarmers general (for that odious collection is the mode they purfue) confiderably; and near twenty years ago they feized many of the postessions of the monks—that act for which the National Affembly of France has been condemned; but which, in the hands of numerous other governments, has either passed without animadversion, or has been commended. They did the fame with the estates of some of the hospitals, but though such exertions have raised their revenue to 6,100,000 ducats, (1,054,000l.) yet they have found their affairs in such a situation, from bad management, that they have been obliged. to fell the offices, which were in better times granted to merit; and committed a fort of bankruptcy, by reducing the interest of their old debts from 5 to 3 per cent. credit is at fo low an ebb, that no longer ago than! It June, they opened a fubscription to fund 700,000 ducats, and notwithstanding every art, could procure no more than about 300,000. Inflead of their famous chain, which marked the wildom of their economy, their treasury is without a fol; and to shew the apprehensions they have of provinces under their dominion throwing off their yoke, if they are at a finall diffance from the feat of government, the State makes a diffinction in the political treatment of the Bergamafque and Brefe an territories, from those nearer to Venice, in respect to privileges, punifi m nts, taxes, &c. No favourable feature of their government; and which thews that they think the people made for their city. Perhaps,

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Upon ti flows entir spite of thi Perhaps, in the fystem of their finances, there is no circumstance that shews a decline of the real principles of their government, more than that of putting contraventions of the tobacco farm under the controll of the State inquisitors; which must have been done since M. de la Lande's second edition, as he mentions expressly their having nothing to do with the finances. A conduct utterly ridiculous, in a state that once con-

ducted itself with fo much dignity.

Even in the delicate article of imparting the privileges of the ariflocracy, to the nobility of Terra Firma, by whom they are in general detested, they have exhibited no doubtful fymptoms of weakness and want of policy. Reputation has been for many years the great support of their government; to manifest therefore such a want of policy, as strikes the most careless eye, is to suffer in the tenderest point. In 1774, they offered gratis, a feat in the configlio maggiore, to forty families, their subjects, who possessied 1200l. a year in land; provided there were four degrees of nobility, on the fide of both husband and wife. Great numbers of families were eligible, but not ten in the whole would agree to the proposal. To offer a share in the legislature of so celebrated a republic, which in past periods would have been sought for with singular avidity, and to fuffer the mortification of a refufal, was exhibiting a fign of internal weakness, and of want of judgment, adapted to reduce the reputation of their policy to nothing. The motives for the refufal are obvious: these families must of course remove to Venice; that is, to go from a city where they were old and respected, to another where they would be new and despised. Their estates also would not only suffer from their absence, but would be subject to new entails, and held by other tenures; no mortgage of them is allowable; and they are subject to peculiar laws of inheritance. In addition to these disadvantages, they are cut off from ferving foreign princes; whereas the nobility of Terra Firma engage in fuch fervices. The Emperor's ambassador at Turin, is a subject of Venice; and one of the Pellegrini family, a field marshal in his army. Nor did the noblemen of Terra Firma refuse the favour for these reasons alone; they dreaded the power which the State exerts over the noble Venetians, in fending them upon expensive embassies, in which they must spend the whole of their income, and, if that be not sufficient, contract debts to support themselves; for these reasons, and many others mentioned to me, which I did not equally understand, the government might have known before they made the offer, that it would subject them to the disgrace of a refusal. Long before the period in question, confinable additions had been made to nobles of Venice, from the Terra Firma, but these honours were paid for; the price 17,000l. sterling; 7000l. in cash, and 10,000l. lent to the State in perpetuity.

It is a curious circumstance, which marks undeceivingly the general features of the Venetian government, that about forty years ago, as well as at other periods, there were negociations between the Court of Vienna and the Venetians, relative to an exchange of territory; the district of Crema was to have been given by Venice, for a part of the Ghiara d'Adda; the rumour of which filled the people of the latter with the greatest apprehensions; they felt even a terror, at the idea of being transferred to the government of Venice; knowing, certainly, from their vicinity, that the change would be for the worse. This ascertains the comparative merit of two governments, that one is less bad

than the other.

Upon the whole it may be remarked, that the wisdom of the Venetian government flows entirely from its interior organization, which is admirably framed; but abuses, in spite of this, have multiplied so much, that the first real shock that happens will overturn

it. The fall of a government, however, which has subsisted with great reputation so much longer than any other existing at present, ought to be esteemed a great political loss, since the establishment of new systems is not at present wanted for the benefit of mankind, so much as the improvement of old ones; and if by any amelioration of the Venetian aristocracy, the benefit of the common people could be better secured, it might yet

last in enlightened ages, as well as through those of darkness and ignorance.

BOLOGNA.—The government of the church, though in so many respects considered as one of the worst in Europe, ought not to be condemned too generally, for some discrimination should be used. Thus in point of taxation, there are few countries that have less to complain of than this, as I have shewn in the proper place; and another circumstance was mentioned to me here, which proves that it is not the Pope's fault that it is not better—His Holiness was ready to abolish all setes, confining them to Sunday; and made the offer to the Senate of Bologna, if they would apply to him for the purpose; great debates ensued in that body, and it was determined not to make the ap-

plication.

Tuscany.—The government of the Grand Duke is, as every one knows, absolute; it admits therefore of no other discrimination, than what results from the personal character of the Prince. The circumstances I noted, during my residence at Florence, will shew that sew sovereigns have deserved better of their subjects than Leopold: the details, however, which I shall enter into, will be very slight, not that the subject wants importance, but because many other books contain large accounts of this period; and especially the collection of his laws, of which I wish to see a complete English translation, for the use of our legislators. The encouragements which this wise and benevolent sovereign has given to his subjects, are of various descriptions; to class them with any degree of regularity, would be to abridge that collection; a few, that bear more or less upon agriculture, I shall mention.

I. He has abolished tythes, which will be explained more at large, under the proper head.

II. He has established an absolute freedom in the trade of corn.

111. He has for many years contributed one-fourth part of the expence of buildings, in the Val de Nievole, and the lower province of Siena.

IV. He has this year made the culture of tobacco free, and engaged to buy all that is

raifed at 16/. the pound.

V. He has extinguished the national debt of Tuscany, which had existed from the time of the repulsic; for it deserves noting (in order for some future historian † of the modern ages, to mark the fact that the richest people run in debt the most) that the republic of Florence was one of the most commercial and rich in Europe. Two evils attended this debt, which the Grand Duke bent his operations to remove; first, three or four millions of it were due to foreigners, particularly to the Geonese, which carried much money out of Tuscany; and, secondly, there were distinct bureaus of collection and payment, for transacting the business of these debts. To remedy this double mischief, he first bought up all that part of the debt due to strangers, which he effected by

· Col'ezione di Leggi, 8vo. 10 vols. - Siena.

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⁺ There is no work in the whole range of literature, more wanted than a Modern History of Europe, written philosophically; that is to say, with due attention to the progress of arts, sciences, and government; and with none paid to wars, battles, sieges, intrigues, generals, heroes, and cut throats, more than briefly to condemn them: in such a work, the circumstance of the richest countries in Europe, having plunged them-selves the deepest and most ruinously in debts, to support wars of commerce and ambition, should be particularly explained and condemned.

the operation of a steady and wise economy; he then called on the Tuscan creditors to liquidate their debts, in the ratio of 3 per cent.; those who had money did it; and to those who had none, he lent the necessary sums: by this method, the distinct receipt and payment were abolished; the accounts were melted into the land-tax; and a number of revenue officers, &c. were reformed: nine or ten millions of crowns were thus extinguished.

VI. He has abolished all rights of commonage throughout his dominions, and given

the powers of an universal inclosure.

VII. He has fold a confiderable portion of the estates belonging to the fovereign, which has occasioned a great increase of cultivation, and the settlement in his dominions of many rich foreigners.

VIII. In levying taxes, he has abolished all the distinctions of noble, ignoble, and ec-

clefiaftical tenures; and all exemptions are fet afide.

IX. He has built a magnificent lazaretto at Leghorn, and fpent three millions on roads; but it would be entering too much into detail to specify his works of this fort;

they are numerous.

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The effects of fuch an enlightened system of government have been great; general effertions will not describe them so satisfactorily to a reader as particular instances. Sig. Paoletti, who has been curé of the parish of Villamagna forty-three years, assured me, that the forty farms, of which it consists, have risen in their value full 2000 scudi each in that time, which is about cent per cent. of their former value; this great improvement has been chiefly wrought of late years, and especially in the last ten. It highly merits notice, that the countries in Europe, whose whole attention has been given exclusively to their commerce and manufactures, and particularly England, where the commercial fystem has been more relied on than in any other country, have experienced nothing equal to this case of Tuscany, the government of which has proceeded on a principle directly contrary, and given its encouragement immediately to agriculture, and circuitoufly to manufactures. In the tours I made through England, twenty years ago, I found land felling on an average at thirty-two and a half years purchase; it sells at present at no more than twenty-eight. While Tuscany therefore has been adding immensely to the money value of her foil, without trade and without manufactures, (comparatively fpeaking to those of England,) we have in the same period, with an immense increase of trade, been loting in our land. This fact, which is unquestionably true, is a curious circumstance for political analysis: it proves something wrong in our system. Population in Villamagna has augmented about a feventh, in the same period.

I shall not quit this article, without giving the preference decidedly to Leopold, Grand Duke of Tuscany, as the wisest of the princes, whose power admits a comparison in the age in which he lives: those are mean spirits, or something worse, that will hesitate a moment between him and Frederic of Prussia: a sovereign no more to be compared to him, than the destroyers and tyrants of mankind are to be placed in competition with

their greatest benefactors †.

* By the general regulations for the district of Florence, May 23, 1774. cap 35. it is ordered that all the landed property of the communities, kept in administration, or let, shall be fold or let on long lease. Paoletti, p. 85.

4 The conduct of this Prince in his new fituation, to which he acceded at a most critical and dangerous moment, has been worthy of his preceding reputation, and has fet a stamp on the rank in which I have supposed him. A few years more added to the life of Joseph, would have shivered the Austrian monarchy to nothing; Leopold has, by his wife and prudent management, every where preferved it.

Modena.-In an age in which the fovereigns of Europe are incumbered, and foine of them ruined by debts, a contrary conduct deserves considerable attention. The Duke of Modena, for ten years palt, has practifed a very wife economy: he is fupposed, on good authority, to have saved about a million of zecchins, (475,000l.) and he continues to fave in the same proportion. This is a very fingular circumstance, and the effect of it is observable; for I was affured at Modena, that this treasure was much greater than the whole circulating currency of the Dutchy; and they spoke of it as a very mischievous thing, to withdraw from circulation and use, so considerable a sum, occasioning prices generally to rife, and every thing to be dear. By repeated inquiries, I found this dearness was nothing more than what is found in the States around, which have all experienced, more or lefs, a confiderable rife of prices in ten years. But how could withdrawing money from circulation raise prices? It ought on the contrary, in a country that has no paper-money, to lower them. That this effect did not follow, we may eafily conclude from these complaints. But the very persons who complained of this treasure could not affert that money was more wanted in the Dutchy than before it was begun to be faved. They even gave a proof to the contrary, by affirming the rate of interest to be at present 41 per cent. only. Upon the whole, the effect is evidently harmless; and it is a most curious fact in politics, that a government can gradually draw from circulation a fum that in ten years exceeded the current coin of the State, without causing an apparent deficiency in the currency, or any aconveniency whatever. Conclusions of infinite importance are to be drawn from such a fact; it seems to prove. that the general modern policy of contracting public debts, is abfurd and ruinous in the extreme; as faving in the time of peace is clearly without any of those incoveniences which were once supposed to attend it; and by means of forming a treasure, a nation doubles her nominal wealth, that fort of wealth which is real or imaginary, according to the use that is made of it. The reputation, preventing attacks, is perhaps the greatest of all. How contrary to the funding fystem, which carries in its nature, such a probability of present weakness, and such a certainty of future ruin!

PARMA.—The river from Parma to the Po has been surveyed, and might be made navigable for about 25,000l. sterling; but to the honour of the government which has been diffused through so many countries by the House of Bourbon, no such undertaking can here be thought of. Don Philip's history, it is to be hoped, will be written by some pen that can teach mankind, from such an instance, of what stuff men are sometimes made, whom birth elevates to power. The present Duke spends too much

money upon monks, to have any to spare for navigations.

Ptedmont.—The House of Savoy has, for some centuries, possessed the reputation of governing their dominions with singular ability; and of making so dexterous a use of events as to have been continually aggrandizing their territory. The late King was among the wisest princes of his samily, and shewed his talents for government in the practice of an enlightened and steady economy: it deserves no slight attention among the princes of Europe, in the present ferment of men's minds, whether there be any other criterion of a wise government. The late King of Sardinia saved 12,000,000 livres; paid off a great debt; repaired all his fortresses; adorned his palaces; and built one of the most splendid theatres in Europe; all by the force of economy. The contrast of the present reign is striking; His present Majesty sound himself in possession of the treasure of his predecessor. He sold the property of the jesuits, to the amount of 20,000,000 livres; he has raised 7 or 8,000,000 livres by the creation of paper money; thus, without noticing the portions of the Queen and the Princess of Piedmont, he has received 40,000,000 livres extraordinary (2,000,000). Iterling): all of which has been

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In 1750 three year feed on cr 8,710,250

^{**} Rift

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lavished, and a debt contracted and increasing; the fortifications not in good repair; and report fays, that his army is neither well paid, nor well disciplined. These features are not to be mistaken; the King, though free from the vices which degrade so many princes, and possessing many amiable virtues, is of too easy a disposition, which exposes him to situations, in which economy is facrificed to feelings—amiable for private life, but inconsistent with the severity of a monarch's duty.

It is a most curious circumstance in the King of Sardinia's government, that there is in this court a great desire to sell the island of Sardinia. A treaty was opened with the Empress of Russia for that purpose, after she was disappointed in her negotiation with the Genoese; in the projected acquisition of Spazzie, and of Malta: but in all these schemes of a Mediterranean establishment, she was disappointed by the vigorous and decisive interference of the courts of Versailles and Madrid. One cannot have any hesitation in the opinion, that to improve this island, by means of a good government, would be more political than so strange a measure as its sale.*.

I fhal

It may not here be unufeful to the reader, if I note some minutes taken at Turin concerning that island, one of the most neglected spots in Europe, and which, of course, betrays the effects of a vicious system of government sufficiently, for conclusions of some importance to be drawn. The marshes are so numerous and extensive, that the intemperia is every where sound; the mountains numerous and high; and wastes sound so generally, that the whole isle may be considered as such, with spots only cultivated. Estates in the hands of absentees are large, the rents consequently sent away, and the people left to the mercy of rapacious managers. The Duke of Affinaria has 300,000 livres a year: the Duke of St. Piera 160,000 livres: the Marquis of Pascha as much; and many live in Spain. M. de Girah, a grandee, has an estate of two days journey, from Poula to Oleastre. The peasants in a miserable situation; their cabins wretched hovels, without either windows or chimnies; their cattle have nothing to eat in winter, but browzing in woods, for there are no wolves. The number of wild ducks incredible. Shooting them was the chief amusement of an officer, who was nine years in the island, and who gave me this account. Provisions cheap; bread, 1 s. the pound; beef, 2 s.; mutton, 2 s. i, a load of wood, of ten quintals, 4s. od. stelling. Wheat is the only export; in this grain the lands are naturally fertile, yielding commonly seven or eight for one, and some even forty. No silk; and oil, worse than easy to conceive. They have some wine almost as good as Malaga, and not unlike it. The great want of the island is that of water: springs are scarce, and the few rivers are in low bottoms. To these particulars I shall add a few from Gemelli,

Sardinia is a real desert, for the most part; and where cultivated, it is in the most wretched manner: every

Sardinia is a real defert, for the most part; and where cultivated, it is in the most wretched manner: every thing consumed in the island (except the immediate food of the day) is imported, even their flax ** and wood, from Corsica and Tuscany; the miserable inhabitants know not even the art of making hay; their crops are destroyed by wild animals, for the very notion of an inclosure is unknown. Leases are annual †.

The tunny fishery produces from abroad 60,000 feudi ‡.

They have no mules; and the cities, as they are called, have been supplied with corn from abroad; with plenty in the island, which could not be brought for want of mules to convey it; infomuch that a fourth part of the corn has been offered as a payment, for carrying the other three parts to the towns, and not accentrate.

In 1750, there were about 360,000 fouls in Sardinia; in 1773, they were 421,597; fo that in twenty-three years the increase was 61,597; occasioned by an institution called Monit Framentarii, which furnishes feed on credit to the poor farmers, who cannot afford to buy it || Cattle in the island, in 1771; cows, &c. 3,710,250; oxen for work, horses, mares, and calves bred for work, 185,266 ¶.

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Working oxen,					97,753
Cows in calf, -	-	-	•	•	13,099
Calves, ammanfite,	-	-	•	-	8,080
Horses and mares,	•		-	•	66,334
Hogs	•	•	•	•	352,471
Oxen and calves, rudi,	-	•	•	•	58,770
			Carried	overa -	306,507

I shall not quit the subject of Italian governments without remarking, that such deserts as Sardinia, under a despotic monarch, and Istria under a despotic aristocracy, are to be classed among political lessons. The tendency and result of such cases are sufficient to shew the principles of government: the leaders should speedily correct the neglect of such systems. When people are well governed, things cannot be thus. The wisdom applicable to the present moment is to watch the colour and spirit of the age; to compound, and to yield, where yielding is rational.

ACADEMIES.—There is an agrarian fociety at Turin, which has published four volumes of papers: a patriotic fociety at Milan, which has published two volumes; neither of these societies hath any land for trying experiments. At Bergamo, Brescia, and Verona, there are also societies without land. At Vicenza, the republic has given four campi for the purpose of experiments. At Padua, I viewed the experimental garden, of about a dozen acres, under the direction of Sig. Pietro Arduino; the expence of which is also paid by the state. At Florence, a similar one, under the conduct of Sig.

Zucchino; this was in good order.

Venice—Perhaps no country ever had a wifer plan of conduct than the Venetians, in appointing a gentleman supposed, from his writings, to be well skilled in agriculture (Sig. Arduino), to travel over all their dominions, to make inquiries into the state of agriculture, its desciencies, and practicable improvements; and the idea was, that the academies of agriculture, in all the great towns of the republic, would have orders to take such steps to effect the improvements as would most conduce to national prosperity. The plan was admirable; all, however, depends on the execution; as far as the academies are concerned, I should expect it to fail, for none of them are established upon principles that will allow us to suppose their members skilled in practical husbandry; and without this, their ideas and their experiments would of course be visionary.

				Brough	t over,	- 306	,5 07
Cows and co	w-calves, re	udi,			-		468
Goats,		-	•	•	-	378	,201
He-goats,	-	-	-	-	•		597
Sheep,	•	-	•	•	-	768	, 50
Rams and wethers *.		-	•	•	-	143	,502
				6		********	_
						1,895	,525

The miserable state of this island will best appear from calculating the number of acres. Templeman tells us, that it contains 6,600 square miles. England he makes 49.450; the real contents of which, in acres, are 46,915,933; Sardinia, in the same ratio, contains 6,261,782; the number of goats and sheep in the island is 1,332,550; there is, therefore, about one sheep or goat to every five acres. Without viewing the sissand, I will venture to pronounce that it would, without cultivation, support a sheep per acre; above six millions; and reckoning the sleeces at 38 4d. each, the wool only would produce one million sterling a-year. It is faid, the King of Sardina offered to sell the island to the Empress of Russia for a million sterling. The purchaser of it would have a noble estate at twice that price, seeing the immense improvements of which it is capable. The fee-simple of most of the estates are to be purchased at a very easy rate, as well as the sovereignty. The climate would admit of wool, as sine as the Spanish; if it were made into an immense sheep-walk, with culture only proportioned to their winter support, it would yield an exportable produce of full two millions sterling annually.

Gemelli mentions the island being capable of producing as fine wool as Spain; they rear them only for supplying their tables with lambs and cheese; and to have skins for dressing the people; and no attention whatever is paid to the quality of the wool, which is good for nothing but to make the Sardinian serges.

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Pied nata per about o courfe, j tenant p abundar mionopo old; foi one pour Turin

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It will not perhaps be improper to remark, under this head, that there is at Venice an inflitution appointed by the state, which, though not an academy, has much the same object, but with more authority, called the Beni Inculti. Their origin was about 1556, and in 1768 they added the Deputati di Agricoltura. I was informed, that they had once great power, and did much good, but that now there lies an appeal from their tribunal to the council of forty, which is attended with a considerable expence, and has done mischief.

SECT. II. --- Of Taxation.

PIEDMONT.—Chentale.—The land tax near the town is 6 livres, or 7 livres per giornata per annum, on such land as sells at 800 livres to 1000 livres; which may be called about one-sixth of the rent, supposing land to pay sive per cent. The landlord, of course, pays his own capitation of 1 livre for himself, and every one in family; and the tenant pays as much for his family, being more than seven years old. But what is abundantly worse, he pays 25 s. a head for each cow, and 50 s. for each ox. Salt is a monopoly: the ratio per head is eight pounds for every one in family, after five years old; four pounds for each ox and cow; and one pound for each sheep and goat; and one pound more per cow for those that give milk: the price, 4 s. the pound.

Turin.—No capitation in Turin. The entrées are 8 f. the brenta, fifty bottles of wine; 4 den per pound meat. Salt, 4 f. the pound. Hay, 1 f. the rubbio, to the Hotel de Ville, for lighting the city. No taxes except the entrées. The land-tax in common is 4 livres the giornata. Salt, eight pounds each ox or cow, and four pounds each goat, sheep, or calf, at 4 f.; and if they want more, the rest 2 f. the pound; also eight pounds per head of the family. Capitation in the country, a livre per head, for all above seven years.

The following is a correct Detail of the Revenue of the King of Sardinia, which in 1675 amounted only to 7,000,000 livres. (306,250l.)

, ,,. ,	(5-	, ,	,	Livres.
Customs—excise and falt,		-	•	14,000,000
Land-tax, which is between feven and eight per ce		•	•	- 6,000,000
Since 1781, the clergy their thirds of the land-tax,	•		-	- 500,000
Addition to the land-tax, for the Nice road,	-	-		- 100,000
Contribution of the Jews, '-	•		-	- 15,700
Sale of demefne lands falling into the crown,	•	•	-	800,000
Fees in the courts of justice,	•	-	-	110,000
Salt in the provinces of Alexandria and Novara,	•		•	- 65,460
Enrollment of all public acts and contracts, -	-	-	-	270,100
Post-office,	-	-	-	300,000
Lotteries, royal powder works, glafs-houfes, mines,	falines,	&c.	about	3,000,000
Total, exclusive of the last article,	•	- (-	• 22,167,260
	Sterli	ng	•	£ 1,158,813
				

*	The	following is another account: - Sale, Tobecco Dogana	-	-	-	3,5°4,233 -2,415,797 2,377,673	livres.

Carried forward - 8,297,203

Carne,

	E.	xpenditu	re.			
Interest of the public debt,		•		•	•	* 4,738,840
Arary,		. •		-	-	110,700,000
Ordnance, -		• \	•	•	-	359,044
Fortifications, royal houses,	and publi	ic buildi	ngs,	•	•	1,458,998
Houshold,		•	•		•	2,500,000
Collection of the revenue,	/ •		•	• ,	•	3,572,398
King's privy purse,	•	•		•	•	711,425
-						24,040,705
				Sterling,		£ 1,202,035

If, as calculated, there are two thousand eight hundred and eighty-two square French leagues in the King's continental dominions, the revenue amounts to 10,920 livres per league; and as the population is three millions, it is 8 livres 2 f. per head. Savoy produces 2,432,137 livres; Piedmont, 11,444,578 livres; and the provinces acquired by the treaties of Worms and Vienna, 1,972,735 livres.

MILANESE.—Milan.—One livre on the manufacture of each hat; duty of 7½ f. per pound on the export of filk. There are entrées at the gates of Milan upon most commodities. Wine pays 42 f. the brenta, of ninety-fix bocali, of twenty-eight ounces, or something under a common bottle. Salt in the city is 12 f. the pound, and 11½ f. in the country. No person is obliged to take more than they think proper.

Brought forward,	8,297,203
Carne,	1,240,230
Carta bollata,	249,103
Polveri,	215,788
Contravenzioni -	22,3.0
Gabella giaochi, .	137,389
Reggio lotto del feminario	, 388,487
Gran cancellaria, -	162,537
Dritti infinuazione, -	44,017
Regie poste,	394,214
Domaniali,	442,884
Cafuali,	1,449,548

Sardinia, in 1783, produced 1,318,519 livres; the population 450,000 fouls.

The debt amounts to 58,000,000 livres, originally at four, now at three and a half per cent., and the fund is above par. There are 17,000,000 of bank notes, which at first bore four per cent., then two, and as wone.

· Guards, -	-	•	-	1.397
Fifteen regiments of th	e line,	-		17,784
Twelve regiments of m	ilitia,	•	•	7,200
Legion, -		-	•	3,713
		•		
				23,099
Invalids, -	•	•	•	2,400
Sundries, -	-	-	•	1,141
Infantry, -				31,/40
Cavalry and dragoons,		•	-	3,289
		•		34,929
Of which foreigners,				7,5,6
Or water tote Enerry	-	•		1,270

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Mozzata.—The land-tax throughout the Milanese is laid by a cadastre, called here the censiments; there was a map and an actual survey of every man's property taken parochially, and a copy of the map left with the community of every parish. It was finished in 1760, after forty years labour, under the Empress Maria Theresa. 'The lands were all valued, and the tax laid at 26 deniers; 1 f. 6 deniers per ecu, of the fee fimple. There is at Milan itself, as well as in the accounts of travellers, strange contradictions and errors about this tax; as foon as I arrived I was told, even by very fenfible men, that it amounted to full fifty per cent. of the produce. 'Monf. de la Lande, in his Voyage en Italie, tom. i. p. 291, second edition, says, that it is one-third of the revenue, or half the produit net; this is the confusion of the economistes, with that jargon which feems to have enveloped the plainest objects in a mist; for one-third of the revenue is not half the produit net. Monf. Roland de la Platerie afferts, that it exceeds the half of the revenu net; but all these accounts are gross errors. The instruction of the commissaries originally, who valued the country, was to estimate it below the truth; of which these gentlemen seem to have known nothing. Nor do they take into their confideration the improvements which have been made in near thirty years; for the confimento remains as it was, no alteration having been made in the valuation; when they talk therefore of fifty per cent., or a third, or any other proportion, they must of necessity be incorrect, for no one knows the value of the whole dutchy at present; nor can tell whether the tax be the fifth or the tenth, or what real proportion it bears to the income. When I found the subject involved in such confusion by preceding .ravellers, I faw clearly that the way to come at truth was to enquire in the country, and not depend on the general affertions to common in great cities. At this place (Mozzata), therefore, I analyzed the tax, and by gaining a clear comprehension of the value, rent, produce, and tax of one hundred pertiche, was enabled to acquire a fair notion of the subject. Under the chapter of arable products, I have stated that one hundred pertiche yield a groß produce, in corn, wine, and filk, of 1836 livres; of which the proprietor receives for his share 785 livres. This land would fell for 128; livres per pertica; or 12,833 livres for the hundred. Now this hundred pertiche, of such a rent and value, pays censimento 15 f. per pertica, or 77 livres. This tax is paid by the farmer in the above-mentioned division; but if there were no tax, the landlord would receive fo much more as his portion; add therefore the tax, 77 livres, to his receipt, 785 livres, and you have 862 livres for the fum which pays 77 livres; which is 84.64, or 81, 18s, per cent., or 18, 9d. in the pound. So utterly militaken are the people of Milan, and the French travellers, when they talk of fifty per cent., and one-third, and one-half, the produit net and revenu net! And it is farther to be confidered, that only half this payment of 77 livres goes to the fovereign; for half is retained by the communities for roads, bridges, and other parochial charges; and in some cases, the partial support of curées is included. When this happens, the payment of 1s. od. in the pound is in lieu of our land-tax, tithe, and poor-rate; three articles, which in England amount to 8s, or 1cs, in the pound. But though the burthen is nothing, compared with those which crush us in England, yet 1s. 9d. is too heavy a land-tax; it is throwing too great a burthen upon the landed property, and leffening too much the profit which should arise from investing capitals in it; for it must be remarked, that this proportion is that of the improvements included; this 1s. 9d. might probably, twenty-five years ago, be 3s. or 3s. 6d.: it is improvements which have lowered it to 1s. 9d. at the prefent moment; those filent and gradual improvements, which take place from what may be termed external causes, from the growing prosperity, and rife of prices in Europe in general. Were 84 per cent. to be laid on new investments, not one livre would be invested. Lands belonging to ecclesialtics and hospitals are exempted.

It must be sufficiently apparent, that this censumento must vary in every parish in the dukedom; it varies proportionably to the variation in the accuracy of the original valuation, and to the improvements that have been made, and to many other circumstances. As it is at present, the land-owners are well satisfied, for the tax, though too heavy, is certainly not enormous; and it gives an accuracy and security to property that is of no slight value, as all mutations are made in reference to the parochial map of the censumento. They very properly consider any alteration in it as a certain step to the ruin of the Milanese. It has been reported that the Emperor has entertained thoughts of having a new valuation; but the confusion and mischief that would flow from such a scheme might go much farther than the court could imagine, and might be attended with unforeseen consequences. In these opinions they are certainly right; for of all the curses that a country can experience, a variable land-tax is perhaps the heaviest.

Befide the direct land-tax of the censimento there is a capitation that is included in the roll, like the custom in England, of putting several taxes into one duplicate or assemble. On fifteen thousand one hundred and seventy-three pertiche of land, at Mozzata, there are three hundred and eighty-two heads payable, and one thousand three hundred souls. It may be calculated, that one hundred pertiche pay the capitation of three perfors, or 221 livres.

Codogno.—The watered dairy lands, taken in general, fell here at 300 livres the pertica; and lets, net rent, at 10 livres, the tenant paying all the taxes. The account is thus:

Rent to landlord,	-	-	-	10 livres	o f.
Water-tax for distribution,	•	•	•	I	o
Censiments to the prince and	the communi	ty, -	•	2	5
				13	5

The t livre we must throw out, being local, and then 12 iivres 5 s. pays 2 livres 5 s., which is 18 2 2 per cent., or 3s. 8d. in the pound; this is therefore doubly higher than in the poor country of Mozzata; one would toppose beforehand that the case would be so. The improvements in the Lodizan are not modern; probably there are no other but such as are common to the whole dutchy, and which arise from the general prosperity of Europe, rather than from any local efforts in this district; but in much poorer countries, the improvement of waste spots, and a husbandry gradually better, are more likely to have this effect; the fact, however, is so; there was no such difference as this, when the censure was laid, which sufficiently proves that the husbandry of the poor districts has advanced much more in thirty years, than that of the rich ones, which once well watered admitted of little more. We may remark, that even here the accounts which Messes de la Lande and Roland de la Platerie have given, are gross exaggerations.

Treviglio.—Upon four hundred pertiche of land and fix houses, the consimento amounts to 430 livres. Rent, 7, 9, and 12 livres the pertica, average 8 livres, or 3440 livres, about 12 per cent. or 2s. 4d. in the pound.

Upon the land-tax in general in the Milanese, I should observe, before I quit that country, that in 1765 it was calculated * that the Dutchy of Milan contained sources

millions of three hu millions further st

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Eleven pertica †. In the Wilizek, general v

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Verona. furnishing campo, or nicipal chapable to 1 f. Thannum;

Vicenza of flour, o

Bilancio dello Stato di Milano presentato a S. E. Conte di Firmian, 12mo.

^{*} Delle O + Upon living, or elall others fa de S. Conte

millions of pertiche, and that lakes, roads, &c. deducted, there remained eleven millions three hundred and fixty-feven thousand, two hundred and eighty seven, of which, sive millions ninety-eight thousand seven hundred and sifty-eight were arable. It has been further stated *, that the censumento of the Dutchy, raised,

n 1 n		liv. f den.
For the Emperor,	-	5,106,004 11 9
Suppose as much more for the communities,	•	5,106,004 11.9
		10,212,000 3 6
		10,212,009 3 0

Eleven millions of pertiche, paying ten millions of livres, is about 18 foldi per pertica †.

In the Epilogo della Scrittura Cenfuaria della Lombardia Auftriaca, MS. fent by Count Wilizek, prime minister of the Milanese, to the Board of Agriculture at London, the general valuation of the territory, in the censimento, is thus stated:

•	-			40,139,042 fcudi
•		•		14,487,423
•	•	-		6,173,740
•	•	-		15,112,042
•	-	•		11,014,562
-		-		2,153,626
Value of	the fee f	imple,	-	89,081,337

If therefore the tax produces but about ten millions of livres, it is not more than z per cent, on the above capital.

STATE OF VENICE.—Brescia.—The land-tax amounts to 1\frac{1}{2} livre per jugero, about 7d. the English acre; but there is a tax on all products, viz. wheat and rye pays the some or sacco, equal to two stara of Venice, or eighty-eight pounds; 11\frac{1}{2} solidi equal to 18 solidi co.renti; this tax (seuza portata in Villa) is about 5d. English the bushel. Millet, maize, &c. pays 12 solidi the sacco, of or about 3\frac{1}{2}d. the English bushel. Hay, the carro of one hundred peze, pays 12 solidi de. or about 6d. a ton English.

Verona.—Meadows, throughout the Veronese State, pay a tax of hay to the cavalry; furnishing it at a lower price than the common one. The land tax here, 24/ for each campo, or about 10d, the English acre; besides which, there are entrées dazio) for municipal charges on all products, amounting to about 2 per cent. of the value; also others papable to the State. Hay pays 24 state carro: the sack of wheat, 10 state. If there is a most mischievous tax on cattle; a pair of oxen pays half a zecchin per annum; cows something less; and sheep also pay a certain tax per head.

Vicenza.—Salt is 6 f the pound; flesh, 3 f. entrée (dazio:) a fack of wheat, 4 f.: of flour, of one hundred and eighty pounds, 3 livres 2 f.: and every thing that comes

^{*} Delle Opere del Conte Carli, tom. i. p. 232.

[†] Upon the taxes of the Milanefe, it faould in general be noted, that every father with twelve children living, or cleven living and his wife with child of a twelfth, it exempted from all personal taxes: and upon all others favoured 45 per cent. that is to say, on all royal, provincial, and municipal imposts. Delle Opere & S. Conte Carli, 8vo. tom. i. p. 254.

in pays. Las '-tax, 2 livres the camp: and a poll-tax of two livres a head, on all above feven years old.

Padua. - The land-tax, 20 f. the campo; and 10 f. or 15 f. for the expences on ri-

vers; but this tax uncertain.

Venice.—No tax on cattle in the Polesine. The land-tax on all the Terra Firma; arable, 2 livres the campo: meadow, 1 livre 10/.; woods, 10/. The sale of meat in the city is a monopoly, no other persons but those appointed being allowed to sell. Entrées are paid on every thing that comes in; on wine it is heavy. Tobacco is a monopoly, at a heavy price, reserved by the State throughout all the Venetian territory, producing 50,000 ducats a month, and guarded by the same infamous severities, that are found in other despotic countries. Salt the same. Inheritances, except from a father, pay 5 per cent. on the capital; a woman pays this cruel imposition, even upon her receipt from a father, or a hulband. Infamous tyranny! The city of Venice pays about one-sixth of the whole revenue.

ECCLESIASTICAL STATE. - Rologna. - Taxation at Bologna is one of the most remarkable circumstances I met in Italy. I had often read, and had been generally given to understand, that the government of the church was the worst to be found in Italy; what it may be in the Roman State I know not, but in the Bolognese it is amongst the lightest to be found in Europe. There are four objects of taxation: — 1. The Pope. 2. The municipal government of the city. 3. The schools in the university. 4. The banks, &c. of the rivers, against inundations. Of all these, there is some reason to believe that the Pope receives the least share. The common land tax is only 2 baiocchi the tornatura; this is about 2d. the English acre. Lands subject to inundations, pay 5 baivechi more. Among the imposts levied in the city, wine only, and a few trifles, belong to his Holiness. Salt, fish, meat, cocoons (for there is a small duty upon them,) and grinding corn, these are municipal; and among the heaviest articles of the cities expence, is the interest of about a million sterling of debt. In general, the revenue of the dogana, or custom-house, is applied towards supporting the lectures in the public schools, and the botanical garden. There is a light capitation, which is paid in the country, as well as in the city. Upon the whole the amount of the taxes of every kind is fo inconfiderable, that the weight is felt by nobody, and was esteemed to be exceedingly light by every person I conversed with.

Tuscany.—Florence.—Every circumstance concerning taxation, in the dominions of the most enlightened Prince in Europe, must necessarily be interesting. If the reader is at all conversant with the works of the accommisses, with which France was so deluged some years ago, he will know, that when they were resulted in argument, upon the theory of a universal land-tax to absorb all others, they appealed to practice, and cited the example of Tuscany, in which dominion their plan was executed. I was eager to know the result; the detail I shall give, imperfect as it is, will shew on what fort of soundations those gentlemen built, when they quitted the fields of speculation and idea. I was not idle in making inquiries; but the Grand Duke has made so many changes, no year passing without some, and all of them wise and benevolent, that to attain an accurate knowledge is not so easy a business as some persons may be inclined to think. The following particulars I offer, as little more than hints to instigate other travellers, whose longer residence gives them better opportunities, to examine a subject of so much im-

portance to the bottom.

The estimation on which the present land-tax is collected is so old as 1394; of course it can bear no proportion with the value or with the produce of the land; whatever improvements are made, the tax remains the same; much of it has been bought off in payments

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payments made by proprietors, who have paid at different periods certain fums, to be exempted for ever from this tax; a fingular circumflance, and which marks no inconfiderable degree of confidence in the government. That part of this tax which is paid to the communities for roads, &c. is not thus redeemable; and, without any breach of faith, the tax has received additions; it amounts to more than one-tenth of the net rent. A capitation from 1½ livre to 4 livres per head (the livre is 8½d. English). Every body pays this tax in the country, except children under three years of age; and all towns, except Florence, Pifa, Siena, and Leghorn, which are exempted, because they pay entrées. Nothing is paid on cattle. Butchers in the country pay a tax of 1 s. per pound (fomething under \{d. \text{per pound English}\); in a district of feven miles long by four or five broad, the butcher pays 500 fcudi per annum to the prince; as this tax implies a monopoly, it is so far a mischievous one; and even a countryman cannot kill his own hog without paying 5 livres or 6 livres if fold. Bakers pay none. Customs on imports, and some on exports, are paid at all the ports and frontiers; and the entrées at the above-mentioned towns are on most kinds of merchandize and objects of consumption. Houses pay a dixme on their rents. Stamped paper is necessary for many transactions. The transfer of land and houses, by sale or collateral succession, pays 7 per cent. and legacies of money and marriage portions the fame-a very heavy and impolitic tax. There is a gabelle upon falt, which however the Grand Duke funk fix months ago from 4 to 2 gras; he at the fame time made Empoly the only emporium, but as that occasioned much expense of carriage, he augmented the land-tax enough to pay the lofs, by felling it to the poor only at 2 gras; the rich pay the fame, but with the addition of carriage. Tobacco was alfo a revenue, and with falt, paid 1 livre per head on all the population of the Putchy, or one million. The entrées above-mentioned are not inconfiderable; a calf pays 6 livres; a hog, 5 livres per one hundred pounds; grain nothing; flour, 10 foldi (there are 20 foldi in 1 livre); beans, 2 f.; a load of hay, of three thousand pounds, 4 livres; of straw, under two thousand pounds, 2 livres. Houses are also subjected to an annual tax; Florence pays 22,000 feudi a-year to it: it may be supposed to be levied pretty strictly, as the Grand Duke ordered all his palaces, the famous gallery, &c. to be valued, and he pays for them to the communities. What a wife and refined policy; and how contrary to the exemptions known in England! When the capitation was increased in France, in a bad period, Louis XIV. ordered the Dauphin himfelf, and all the princes of the blood to be rated to it, that the nobility might not claim exemptions. Lotteries, to my great furprife, I found established here. The domains of the sovereign were considerable. It was always a part of the policy of Leopold, to sell all the farms that could be disposed of advantageously; he fold many; but there are yet many not disposed of. I found it a question at Florence, whether this were good policy or not? A gentleman of confiderable ability contended against these fales, judging the possession of land to be a good mode of raifing a public revenue. The opinion I think ill founded; if it be carried to any extent (and if capable of being fo, there is an end of the question), the loss by fuch possessions must be great: every estate is ill managed, and unprositably, and utually badly cultivated, in proportion to the extent. -- And when this evil extends to fuch immenfe possessions, as are necessary to constitute a public revenue, the inquiry is decided in a moment; and it must on all hands be agreed, that there cannot be a more expenfive rioue of supporting the sovereign.

From the preceding catal gue of taxes, which is very far from being complete, it may enfully be concluded, that Mont de la Landewas not perfectly accurate in faying, "Le projet du gouvernement est de réduire toutes les taxes dans la Toscane à un impôt unique, qui se percevra sur le produit net des terres." This is the old assertion of the accommission in the destroy.

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it be the project of government, it is executed in a manner not at all analogous to fuch a fystem; for there is hardly a tax to be met with in Europe, which is not to be found in Tuscany. I was told, however, that the Grand Duke had formed an opinion, that such a scheme would be beneficial if executed; but from his conduct; after a reign o twenty years, it is evident that his good sense convinced him that such a plan, whether good or bad in theory, is absolutely impracticable. He may have made it a subject of conversation; but he was abundantly too prudent to venture on so dangerous, and what would prove so mischievous an experiment.

The Grand Duke gave to all the communities, the power of taxation for roads, bridges, public schools, reparations of public buildings, salaries of school-masters, &c. Among the long lift of taxes, however, there are no excises on manufactures, such as leather, paper, &c.

The whole revenue of the Grand Duke may be estimated at one million of scudi, (5s. 8d. each,) paid by about a million of souls, spread over a thousand square miles of territory, or 283,3331: this is the received opinion at Florence; but there are reasons for believing it under the truth, and that, if every kind of revenue whatever were fairly brought to account, it would amount to 400,000l. a year. At this imm the Tuscans must be considered amongst the lightest taxed people in Europe; for they pay but 8s. a head. The people of England pay fix times a smuch.

Mannena.—The common calculation in the Modernele is, that all taxes whatever equal one all h of the grofs produce of the land; as the duties are various, fuch calculations must necessary be liable to a good deal of error. In the censimento or cadastre of the Dutchy, efficies are valued at the half of their real worth, and the tax is laid at 1 per cent. annual payment of their fee fimple; this amounts to 6s. in the pound land-tax; buy it may be supposed that the real payment does not amount to any thing so enormous as this. It appears by the censimento, that in the plain there are fixty-seven thousand three hundred and feventy-eight pieces of laud, and feven hundred and thirty-eight thousand eight hundred and nine biolea. The total revenue of Modena at present amounts to 300,000 zeechini, (142,000l.) 200,000 of which go to the Duke's treafure, and 100,000 for rivers, roads, bridges, communities, &c. Among the taxes, many are heavy, and complained of; befide the land-tax above-mentioned, the general farms amount to 55,000 zecclini: all corn must be ground at the Duke's mills, and 3 pauls paid for each fack of three hundred pounds, of twelve ounces. There is a gabelle on falt; it fells white at 22 bol. the pound; black 8 bol. Snuff is 1 paul the pound. They have stamped paper for many transactions. Every horse pays 20 bol.; each ox, 10 bol. Sheep and hogs, 4 bol.: and if any person be absent from the state for the term of a year, he pays an absonce tax. Entrées are paid by every thing that comes into the city; a load of wood, 20 bol.; a fack of wheat, 3 bol.; a load of hay, 20 bol.; of faggots, 20 bol. All meat, 4 bol. the pound. Wine, 14 livres the measure, of twelve point, each twenty-five pounds, of twelve ounces. Coffee, * paul per pound. The fale, &c. of land, pays 5 per cent.

PARMA.—The revenues of this dukedom are two-thirds of those of Modena. The land-tax is 50 f. the biolea (about 9d. an acre). The peasants pay a capitation; this varies if they are enrolled or not as foldiers. A man pays 18 livres (each 24d.) per annum, if not a foldier, but 31 livres or 4 livres if enrolled. A woman, not the wife of a foldier, 15 livres. These foldiers, or rather wiltia-men, pay also 24 f. a month, as an exemption from service. He is enrolled for two y five years, after which he has the same advantage. He pays also but half for him, b f. only the pound; others 12 f. A metayer, who is a soldier, pays all forts of tax is a foldiers.

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SECT. III .- Of Tithe and Church Lands.

PIEDMONT.—Throughout this principality tithe is an object of no account. I made inquiries concerning it every where: the greatest part of the lands pay none; and upon the rest it is so light, as not to amount to more than from a twentieth to a fiftieth of the produce *.

MILANESE.—In the country from Milan to Pavia, no tithe of any kind, but the curées are supported by soundations. In the village where I made inquiries into the dairy management,—the curée has 21 stara of rice, 12 stara of rye, 4 stara of wheat; three hundred pounds of the best hay from one large farm; and he has some other little stipends in nature; the amount small, and never paid as a tithe.

At Mozzata, the tithes, as every where else, are so low as to be no object; grain pays, but not on all land; it is confined to the lands antiently in culture; for even the ancestors of these people were much too wise, to allow the church to tax them in such a spirit, as to take tithes of new improvements. Never did such a measure enter their heads or hearts! The titheable lands are small districts; are near to the villages that have been in cultivation many centuries; and in some of these, tithe is not taken on all sorts of corn; only on those forts antiently cultivated. The variations in this respect are many; but but on whatever it is taken, it never exceeds a fixteenth, usually from one-seventeenth to one-twentieth; and of such as are levied, the whole does not belong to the curse, not more perhaps than one-sourth; one-half to the canons of some distant church, to which the whole probably once belonged; and one-sourth sold off to some lay-lord, with a stipulation to repair the church. The variations are so great, that no general rule holds; but they are every where so light, that no complaints are heard of them.

The church lands feized by the late Emperor in the Milanefe, were of immense value. From Pavia to Plaisance, all was in the hands of the monks; and the Count de Belgioso has hired thirty-fix dairy farms of the Emperor, by which he makes a profit of 50,000 livres a year. The revenue that was seized, in the city of Milan only, amounted to above 5,000,000 livres; and they say in that city, that in the whole Austrian monarchy, it amounted to 20,000,000 florins.

At Codogno, and through most of the Lodizan, tithe is so very inconsiderable, that it is not worth mentioning; the expression of the gentlemen who were my informants. State of Venice.—In the district of Verona, mulberries pay no tithe; wheat one-twelfth in some places, in others less; maize, millet, &c. from one-fisteenth to one-thirtieth; but if for forage only, they pay none, no more than vetches, chick-pease, millet, &c. as it appears by a late memoir printed at Venice \(\frac{1}{2}\). Meadows pay a light tithe, because they are taxed to find hay for the cavalry at an under price. In the district of Vicenza, tithe varies from the one-tenth to the forty-first. About Padua, wheat alone pays the tenth: vines a trisle, at the will of the farmer: mulberries, sheep, and cows, nothing.

ECCLESIASTICAL STATE.—Bologna.—Tithes are fo low throughout all the Bolognefe, that I could get no fatisfactory account of the very small payments that are yet

^{*} Tithe in Sardinia is heavy. They pay one tenth of the corn, and one-ninth of that one tenth for threshing, and one-nifth of the one-tenth for carriage. - Risforimente della Sardegna, tom. i. p. 146.

A corrarkable passage in Giulini deserves noting here; under the year 1147, he gives finakmente si probibise a ciasehedune of gerele decima dai terreni di nuovo coltivati, tom. v. p. 459.

¹ Raccolto de Memor se Delle Pubbliche Accademie, 8vo. 1789, tom. i. p. 197.

made to the church; every one affured me that they were next to nothing; but that in

the Ferrarese they are high.

Tuscany.—In many of the countries of Europe, the feizure of estates and essets of the jesuits was a rapacious act, to the profit of the Prince or State; in Tuscany it was converted to a more useful purpose. The Grand Duke set aside these revenues for forming a fund called the "Ecclefiastical Patrimony," under the management of a new tribunal, that should enable him gradually to abolish tithes. This great reform, equally beneficial to every class of the people, has been in execution for many years: as fast as the prefent incumbents of the livings die, tithes are abolified for ever; their fucceffors enter into possession of moderate salaries, payable out of those funds, or raised by an addition to the land-tax; and thus an impost, of all others the most mischievous, is: speedily extinguishing, and the agriculture of Tuscany improving in consequence; proportionably to fuch extinction of its former burthens. Many monasteries have been also fuppreffed, and their revenues applied, in some cases, to the same use; but this has not been attended with effects equally good: the lands are not equally well cultivated; nor do they yield the fame revenue as formerly; for the farms of the monks were in the best order, administered by themselves, and every thing carefully attended to. This was not the case, however, with convents of women, who being obliged to employ deputies, their estates were not equally well managed.

A proposition was lately made by the court to sell all the glebes belonging to the livings, and to add to the salaries of the curées in lieu of them; but at a public meeting of the Academia di Georgosili, Sig. Paoletti, a curé in the neighbourhood of Florence, a practical farmer, and author of some excellent treatises on the art, made a speech so pointedly against the scheme, fraught with so much good sense, and delivered with so much eloquence, that the plan was immediately dropped, and resumed no more; this was equally to the honour of Paoletti and of Leopold. When good sense is on the throne, subjects

need not fear to speak it.

The lightness of the old tithes may be estimated by the payment which forty farms at Villamagna yield to the same Sig. Paoletti, the curé, which is 40 scudi (each 55. 8d.), and this is only for his life, to his successor nothing in this kind will be paid. Having mentioned Sig. Paoletti, and much to his honour, I must give another anecdote of him, not less to his credit; after his Sunday's sermon, it has long been his practice to offer to his audience some instructions in agriculture, which they are at liberty to listen to or absent themselves, as they please. For this practice, which deserved every commendation, his archbishop reproved him. He replied, that he neglected no duty by offering such instruction, and his congregation could not suffer, but might profit, and innocently too, by what they heard. A sovereign that receives so much merited praise as the great Leopold, can well assorted hear of his saults; sirst, why did he not reprove this prelate for his conduct, and by so doing encourage an attention to agriculture in the clergy? Secondly, why did he not reward a good farmer, and worthy priest, and excellent writer, with something better than this little rectory? Talents and merit in an inferior situation, which might be better exerted, are a reproach, not to the possession.

The Grand Duke took the administration of the lands belonging to hospitals and the poor, into his own hands also; but the effect of this has not, in the opinion of some perfons, been equally beneficial; the poor remain as they were, but the revenue gone; this, in the diocese of Florence only, amounted, it is said, to three or four millions of scudi: if this be true, the mischief attending such revenues must be enormous; and taking them away, provided the really useful hospitals be supported, which is the case, must be beneficial. Too many and great establishments of this nature nurse up idleness, and create,

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Upo preffes fidered attentio the def therefo outrage cepted) every c perhaps their le would wifdom at the Europe itself.

and rice I was in 3 livres by dependency and expectation, the evils they are defigned to cure. Poverty always abounds in proportion to such funds; so that if the fund were doubled, the misery it is meant to prevent would be doubled also. No poor in the world are found at their ease by means of hospitals and gratuitous charities; it is an industry so steady and regular as to preclude all other dependence, that can alone place them in such a situation, as I have endeavoured to shew in my remarks on France.

The patrimony of almost all the parishes in Tuscany, consists in lands assigned them: the rector is administrator and guardian of them; and both by law and his oath on induction, he is strictly obliged to maintain and support them, and also to manure them,

and to increase the produce *.

DUTCHY OF MODENA.—No tithe here; a voluntary gift only to the fub curé. The ecclefiaftical lands have been largely feized here, as well as every where else in Italy; but the Duke gave them to the towns, to affilt them in the expence of the municipal administration.

DUTCHY OF PARMA.—No real tithe; the payments in lieu very small, and not proportioned to the crop; a farm pays a stajo of wheat (about eighty-eight pounds Eng-

lish), two parcels of raisins, and twenty faggots, between the two curecs.

Upon this detail of the tithe paid in Lombardy, &c. one observation strongly impreffes itself, that the patrimony of the church is, under every government in Italy, confidered as the property of the State, and seized or assigned accordingly. It highly merits attention, that in the free countries of Holland and Switzerland, (exempt at least from the despotism of a single person,) the same principal has been adopted; with what reason therefore can the first National Assembly of France be reproached as guilty of a singular outrage, for doing that which every neighbour they have (England and Spain only excepted) had done before them; and which may possibly, in a better mode, be followed in every country in Europe? They have in Italy rid themselves of tithes, though not half, perhaps not upon an average a third of the burthen they amount to in England, where their levy has been carried to a much greater height. If the legislature of that kingdom would give a due encouragement, they will remove fuch burthens gradually, and with All I converted with in Italy on the subject of tithes, expressed amazement at the tithes we are subject to, and scarcely believed that there was a people left in Europe who paid fo much, observing that nothing like i was to be found even in Spain. itself.

SECT. IV .- Of Manufactures and Commerce.

PIEDMONT.—Two-thirds of the rice raised is exported: I met carts loaded with filk and rice on the great road to France; and demanding afterwards concerning this trade, I was informed that the cost of carriage was 30% per rubbio, to Lyons or Geneva, and 3 livres to Paris. The following are the principal exports:

							Livres.
Unwroug	ght filk,		_		-		17,000,000
Damaik,	&c.			-		-	500,000
Rice,	-		_		W /6		3,500,000
Hemp,		_				-	1,500,0 0
Cattle,							2,000,000
							24,500,000

^{*} Paoletti Pensieri sopra l'Agricoltura, 8vo. Firenze, 1789. p. 50. 2d edit.

Oil and wine from Nice, walnut-oil, cobalt, lead, and copper ore, add something. France commonly takes 10,000,000 livres in filk, and England 5,000,000 livres of the finest fort. The balance of trade is generally supposed to be about 500,000 livres against Piedmont; but all suppositions of this fort are very conjectural; such a country could not long continue to pay such a balance, and consequently there cannot be any such. By another account, wheat exported is 200,000 sacks at 5 eymena; 5000 sacks of rice, at 3 eymena; hemp, 5000 quintals; and 10,000 head of oxen.

Turin.—The English we often manufacturers having fworn at the bar of the House of Lords, that the French comblets made of English wool, rivalled the English camblets in the Italian markets, and even underfold them, I had previously determined to make inquiries into the truth of this affertion. I was at Turin introduced to Sig. Vinatier, a confiderable shopkeeper, who fold both. His account of the French and English camblets was this; that the English are much better executed, better wrought, and more beautiful, but that the French are flrongest. I desired to know which were the cheapest. The English he faid, being much the processor, it was a matter of calculation, but he fupposed the confumers thought the English cheapest, as where he fold one French, he fold at least twenty five English. He shewed me various pieces of both, and faid, that the above circumstances were applicable both to stuffs mixed of wool and filk, and also those of wool only. I asked him then concerning cloths: he fail, the English ordinary cloths were much better than the French, but that the French fine cloths were better than the English. These inquiries brought me acquainted with an Italian dealer, or merchant, as he is called, in hardware, who informed me, that he was at Birmingham in 1786 and. 1789, and that he found a fenfible diminution of price; and that the prices of English hardware have fallen for some years patt; and that, for these last three or four years, the trade in them to Italy has increased considerably. He has not only bought, but examined with care, the fine works in iteel at Paris, but they are not equal to the English; that the French have not the art of hardening their steel, or, if hardened, of not working it; for the English goods are much harder and better polished, consequently are not equally subject to rust.

MILANESE.—In the fifteenth century, the trade of this country was confidered le. In 1423, the territory of Milan paid to the Venetians:

				- Ducats.
Milan,	-	-	•	900,000
Monza,		-		52,000
Como,	•	•	-	104,000
Alessandria,		-	•	52,000
Tortona and	Novara,	-	-	104,000
Pavia,	-	-	-	104,000
Cremona,	-	- ,	-	104,000
B rgamo,	-	-	-	78,000
Parma,		-		104,400
Piacenza,	-	-	-	52,000
			,	1,654,400

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And they fent to Venice, at the same time, cloths to the following amount:

			Cloths.		Ducate.
Alessania, Tortona, and N	lovara, at	15 ducat	s, 6,000	_	90,000
Pavia, at 15 ducats,	•	•	3,000	-	45,000
Milan, at 30 ditto, -	•	•	4,000		120,000
Como, at 15 ditto,	-	•	12,000	-	180,000
Monza, at 15 ditto,	-	•	6,000	_	90,000
Brescia, at 15 ditto, -	-	•	- 5,000	_	75,000
Bergamo, at 7 ditto,	-	-	10,000		70,000
Cremona, at 401 ditto,	•		40,000		170,000
Parma, at-15 ditto,	-		4,000	-	60,000
			90,000		900,000
Duties and wareh	oufes,	-	•	•	200,000
Canvas, -					100.000

And at the same time the Milanese took from Venice annually:

Cotton raw, 5000 miliari,	•	250,000 ducats
Cotton fpun,		30,000
Wool of Catalonia, 4000 miliari,	-	120,000
French wool,	-	120,000
Gold and filk fabrics,	•	250,000
Pepper, -	•	300,000
Soap,	-	250,000
Cinnamon,		64,000
Ginger,	-	80,000
Slaves,	•	30,000
Sugar,	-	95,000
Materials for embroidery, -	-	30,000
Dying woods,	-	120,000
Indigo, &c.	•	50,000 *

The produce of filk amounts to 9,000,000 livres; nineteen-twentieths of which, at least, are exported.

Count Verii, in his Storia di Milano, mentions that the Milanese, only sixty miles by fisty, seeds 1,130,000 inhabitants; and exports to the amount of 1,350,000 zecchini; to viz. silk, 1,000,000; cheese and flax, more than 200,000; corn, 150,000. (the zecchini being 9s. 6d. the sum of 1,350,000 equals 641,200l.) But this is changed much; for the export of cheese alone is calculated now at 9,200,000 livres, which is above 306,000l. sterling.

Bergamo.—The woollen manufacture at this place is of great antiquity, and it is yet confiderable. Its trade in filk is great; they buy from Crema, Monti, Brianza, Ghiara d'Adda, and in general the confines of the Milanese; this has given their filk trade a greater reputation than it deserves, for their commerce is more extensive than their product. They have been known to export filk to the amount of near 30%, or 1. Sterling a year. Here also is a fabric of iron and steel, of some consideration in Italy; but none of these objects are in a stile to be interesting to those who have been at all conver-

[·] Giulini, vol. xii. p. 362.

⁺ Verri, tom. i. p. 236.

fant with the fabrics of England. If however the manufactures of Bergamo are compared with those of the Milanese, they will be found considerable.

Brescia.—This is a very busy place; the city and the virinity for some miles abound with many fabrics, particularly of fire-arms, cutlery, and other works of iron. They have many filk and oil mills, and some paper fabrics that succeed well. But their commerce of all forts has declined fo much, as not to be compared at prefent to what it has been in former times.

Verona.—Here is a woollen fabric that still maintains some little ground, though the decleniion it has fuffered is very great. I was affured, that twenty thousand manufacturers were once found in a fingle street; this I suppose may be an exaggeration, but it at least marks that it was once very great; now there are not one thousand in the whole city; in the time of its prosperity they used chiefly their own wool, at present it is imported.

In the Veronese, they make one million of pounds of filk, of twelve ounces, and rice

nearly to as great an amount.

STATE OF VENICE. - Verona. - Many years past the only great import of camblets was from Saxony, but after the war of 1758, the English ones established themselves, and there is now no comparison between the quantity of English and French; of the latter very few, but the import of the former is confiderable.

Vicenza.—They fell nine pieces of English camblets to one of French. A woollen manufacture was established here three years ago, under the direction of Thomas Montfort, an Englishman. It works up their own wool, and also Spanish. Spinning a pound of fine wool 50 f. and the women earn 15 f. a day; weavers 2 livres. Count Vicentino has established a fabric of earthen ware with a capital of 9000 ducats; Mr. Wedgwood's forms (originally however from Italy) are imitated throughout. A good plate, plain, 12 /; ewer and bason 12 livres; small tea cup and saucer, quite plain 15 /.; teapot 4 livres; vafe, eighteen inches high, with a feltoon and openings for flowers, 60 livers. It meets with no great success, and no encouragement from the government.

Venice. - In the fifteenth century Venice employed three thousand three hundred and forty-five ships, great and small, and forty-three thousand failors *. The chief export at prefent is filk; the fecond, corn of all forts; the third, raifins, currants, and wine. Glass is yet a manufacture of some consequence, though greatly fallen, even of late years. Tuyan for beads is, however, yet unrivalled. The glass of Bohemia underfells from the great cheapness of wood, and possibly from that of provisions, (my informant speaks,) not only the glass of Venice, but that of Carniola also. The chief export from Venice of fabrics, is to the Levant; velvets and filks go there to some amount. The trade of the whole Venetian territory does not employ above two hundred and fifty ships of national bottoms.

ECCLESIASTICAL STATE. - Bologna. - All the filk of the Bolognese is here made into crape and gauze; the crapes are, perhaps, the fineft in the world, price confidered. The gauzes also are very beautiful: they measure by the braccio of forty inches; they fell at 26 to 36 baiocchi the braccio (10 baiocchi equal 6d. English). White handkerchiefs are also made for 7 livres each. Crapes and gauzes employ seven or eight thou-

Tuscany. - Florence. - The woollen manufacture was amongst the greatest resources of the Florentines in the time of their republic.

In 12 cloth. Portuga Apulia, hundred eighty ti the third thousand one hun not rece mented i From 14 Medicis public of

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VOL.

[•] Fagionamente sul Commercio, &c. della Toscana, 8vo. 1781, p 21. - Marino Sanudo tra gli Scrittori Italici del Muratori, tom. ii. - Conte Carli delle Monete, tom. iii. dif. 4. - Mebegan Tableau de l'Hiji. Moder. tom. ii. epog. 7.

Ragiona 1 Criftofai

In 1239 the friars umiliate came to Florence to improve the manufactory of woollen They made the finest cloths of the age; the best, of the wool of Spain and Portugal; the feconds, of that of England, France, Majorca, Minorca, Sardinia, Barbary, Apulia, Romana, and Tuscany . In 1336 there were at Florence wore chan two hundred shops, in which woollens were manufactured, which made from seventy to eighty thousand pieces of cloth yearly, of the value of 1,200,000 zecchini; of which the third part remained in the country for labour; and employed more than thirty thousand souls; and thirty years before that the number was much greater, even to one hundred thousand pieces, but coarier, and of only half the value, because they did not receive, nor know how to work the wools of England. In 1460 they were augmented to two hundred and feventy-three, but the quality and quantity unknown t. From 1407 to 1485 was the period of its greatest prosperity. In 1450 Colmo of Medicis was the greatest merchant in Europe. From the year 1365 to 1406 the Republic of Florence, in wars only, expended 11,500,000 zecchini t.

I was affured at Florence, but I know not the authority, that if. a week, on the wages of the woollen manufactures only, built the cathedral; and that at a fingle fair, in the time of the Republic, woollen goods to the amount of 12,000,000 of crowns have been fold.

Giuliano and Lorenzo de Medici fent into England Florentine manufacturers of wool, to exercise their trade, for the account of those princes to take advantage of the cheapness of wool on the spot; from which circumstance the Florentine writer infers, that the English thus gained the art of making cloth §.

These particulars, it must be confessed, are curious, but I must draw one conclusion from them, which will militate confiderably with the ideas of those persons, who infilt that the only way of encouraging agriculture is to establish great manufactures. Here were, for three centuries, some of the greatest fabrics, perhaps the greatest in Europe; and Pisa flourished equally; and yet the establishment and the success of a vast commerce, which gave the city immense riches, the figns of which are to be met with at this day in every part of it, had so little effect on the agriculture of Tuscany, that no person skilled in husbandry can admit it to be well cultivated, and yet the improvements in the last twenty years are, I am assured, very great. Here then is a striking proof, that the prodigious trade of the Tuscan towns had little or to effect in securing a flourishing agriculture to the country. These great political and are not to be decided by eternal reasonings—it is by recurring to facts alone that a safaction can be gained. No wonder that the rich deep foils of Lombardy and bond have been well applied; but the more ungrateful and steril hills of Tuscapy at it is the more I have seen of them) wild and unimproved.

There is yet a woollen manufacture of some consideration. alle fine cloths of Vigonia wool; also hats, and various fabrics of filk.

The export of woollens from Tuscany in 1757, was one hundred and twenty thoufand pounds; and in 1762, it was one hundred and eighty thousand pounds ||.

Among the filk manufactures, here are some good, and pretty satins, 18 pauls (the paul 5td.) the braccio (about two feet English), the width one braccio four inches.

The filk spun in Tuscany in ten years, from 1760 to 1769 inclusive, amounts to 1,676,745 pounds; or per annum 167,674; and in the first sum is comprized two hun-

Ragionamente Sopra Toscana, p. 39. † 1b. p. 39, from Giovanni Villani, Francesco Balducci, Giovanni da Uzzano Benedetto Dei.

¹ Criftofano Landino Apologia di Dante. & Ragionamente Sopra Toscano, p. 61.

dred and fixty-eight thousand nine hundred and seventy-nine pounds of cocoons, bought of foreigners*. The filk manufacture amounts to a million of crowns (7 livres 10/. of Tuscany†). Of oil the export is about 100,000 barrils. The year following the edict of the free commerce of oil and grain, the export amounted to 600,000 feudi‡. Next to oil, hogs are the greatest export, to the amount of from twenty to thirty thousand in a year.

The average of the quantity of filk made in Tufcany, and registered in the tribunal of Florence, from 1769 to 1778, was one hundred and fixty-five thousand one hundred and fixty-eight pounds; and the import of foreign filk, forty-eight thousand four hundred and feventy pounds; together, two hundred and thirteen thousand fix hundred

and forty-nine pounds yearly §.

ModenA .- In 1771, the following were the exports of the Modenefe:

	_				Livres.
Brandy 50,000 poids,	•	-	•	•	59,7,280
Wine, 150,000 ditto,	•	-	•		428,222
Oxen, 5,232 head,	•	-	-		1,569,600
Cows, 3,068 ditto,	•	-	-		613,400
Calves, one year, 500 dit	to,	-		•	69,150
Wethers and goats, 23,50	o ditto,	-		•	141,048
Hogs, 11,580 ditto,	•	-		-	347,280
Pigs, 21,900 ditto,	-	-	-		329,145
Linen, hemp, facks, &c.	1,800,0	000 braccio,	, .	,	1,442,327
Hogs falted, 1,900 poids,		-	•	-	24,479
Poultry, -	-	•			24, (42
Hats of straw and chip,		- ,	•	•	145,308
Ditto of woollen,	•	•	-	-	23,205
Gross fabrics of wool,	•	-		,	83,362
Butter, -	•	•	•	-	106,240
Hemp, fpun or prepared,	13,900	poids,	•	•	348,000
Wax,		-	-	•	74,400
Silk, 77,650 lb.	-			•	3,897,312
Honey, -	•	•	•	-	15,350
Cheefe, -	•	-	-	-	98,556
Chesnuts, -	•	•		•	17,440
Fruit, -	-	•	-	•	81,320
				•	10,472,766

All these are by the registers of the farms; the contraband is to be added.—Exportation is now greater than in 1771.

PARMA.—The first trade and export of the country is filk; the next cattle and hogs.

There is but one concluion to be drawn from this detail of the commerce of Lombardy, namely, that eighteen-twentieths of it confift in the export of the produce of agriculture, and therefore ought rather to be effected a branch of that art, than of commerce, according to modern ideas; and it is equally worthy of notice, that thus

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^{*} Pensieri Ap. Apal. p. 56. † Ib p. 57. † Ib. p. 59. § Ragionamente Sopra Toscano, p. 161.

fublifting by agriculture, and importing manufactures, these countries must be ranked among the most flourishing in the world, abounding with large and magnificent towns, decorated in a manner that sets all comparison at defiance; the country every where cut by canals of navigation or irrigation; many of the roads splendid; an immense population; and such public revenues, that if Italy were united under one head, she would be classed among the first powers in Europe.

When it is confidered that all this has been effected generally under governments not the best in Europe; when we farther resect, that England has for a century enjoyed the best government that exists, we shall be forced to confess, perhaps with astonishment, that Great Britain has not made considerable advances in agriculture, and in the cultivation of her territory. The wastes of the three kingdoms are enormous, and far exceeding in proportional extent all that are to be found in Italy; while, of our cultivated districts, there are but a few provinces remarkable for their improvements. Whoever has viewed Italy with any degree of attention must admit, that if a proportion of her territory, containing as many people as the three British kingdoms, had for a century enjoyed as free a government, giving attention to what has been a principal object, viz. agriculture, instead of trade and manufacture, they would at this time have made almost every acre of their country a fertile garden; and would have been in every respect a greater, richer, and more flourishing people than we can possibly pretend to be. What they have done under their present governments justifies this affertion: we, blessed with liberty, have little to exhibit of superiority.

What a waste of time to have squandered a century of freedom, and lavished a thoufand millions sterling of public money *, in questions of commerce! He who considers the rich inheritance of a lundred years of liberty, and the magnitude of those national improvements, which such immense sums would have effected, will be inclined to do more than question the propriety of the political system which has been adopted by the legislature of this kingdom, that in the bosom of freedom, and commanding such sums, has not, in the agriculture of any part of her dominions, any thing to present which marks such expence, or such exertion, as the irrigation of Piedmont and the Milanese.

SECT. V .- Of Population.

MILANESE.—In all Austrian Lombardy there are 1,300,000 fouls.

In 1748 the population was about 800,000; and in 1771 it was 1,130,000. The Milanefe contains 3000 fquare miles †. In 1732 there were 800,000 pertiche uncultivated; in 1767 only 208,000. In a fquare mile, of fixty to a degree, there are in the Milanefe, 354 fouls. There are in the Dutchy 11,385,121 pertiche, at 4868 pertiche in a fquare mile; and there are in the flate, exclusive of roads, lakes, rivers, &c. 2338 fquare miles ‡, and 377 perfons per fquare mile, which is certainly very confiderable; and that my readers may have a clearer idea of this degree of population, I shall remark, that to equal it, England should contain 27,036,362 fouls §.

VENETIAN STATE.—Padouan.—In the whole diffrict of Padouan there were, in 1760, 240,336 fouls: in 1781, there were 288,300; increase 47,914. There is probably no corner of Europe, barbarous Turkey alone excepted, in which the people do

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^{*} Sir John Sinclair's Hiftory of the Public Revenue, vol. ii. p. 98.

[†] Delle Opere del S. Conte Carli, 1784, tom. i. p 132.

^{\$} At 73,306 fquare miles each of 040 acres.

^{1 16.} p. 319.

not increase considerably; we ought not therefore in England to take too much credit for that rapid augmentation which we experience. It is found under the worst governments as well as under the best, but not equally.

Venice.—The population of the whole territory 2,500,000: of the city, between

143 and 149,000, the Zuedecca included.

In Friuli, in 1581, there were 196,541; and in the city of Udine 14,579. In 1755, in Friuli 342,158, and in Udine 14,729*. The population of all the States of Venice, by another authority, is made 2,830,000; that is 600,000 in Bergamo, Brescia, &c.: in the rest of the Terra Firma 1,860,000: in Dalmatia and Albania 250,000: in the Greek islands 120,000 †. In the time of Gallo, who sied in 1570, there were said to be in the Brescian about 700,000 souls; in 1764, there were 310,388 ‡.

TOSCANY .- The progressive population of Florence is thus shewn, by Sig. Lastri:

1470 S,	•	-	-	40,323
1022,	-	-	-	76,023
1660,	- /	-	-	56,671
1738,	-	-	-	77,35
1767,	-	•	-	78,635

The total population of the Dukedom, is calculated at about 1,000,000 **. Two centuries ago, the population of the fields in the mountains, and on the fea-coast, was little less than double what it is at present. And there is said to have been the same proportion in the cultivation and cattle ††.

Modena. - State of the Dutchy in 1781:

Ecclefiastics,			8,306
	er fourteen y	ears of age,	- 50,291
Girls, ditto,		•	- 49,516
Men,		-	- 115,464
Women,	•	•	- 124,822
		Total	348,399

Marriages, 2,901; births, 12,930; deaths, 10,933. Multiplying the births therefore by 27, gives nearly the population; or the deaths by 41.—Of this total, the following are in the mountain districts:

Carrara,	-		-	8,86 5
Maffa,	-	-	-	11,070
Garfagnana,	, -	•	-	22,242
		Carry over		42,177

* Gemelli, vol. ii. p. 16. + Della Piu' utile Ripartizione de' Terreni. Ge. San Martino, 410. p. 13.

Genein, vol. 10. 11. 11. The Majoritation de Premi Cr. San Marina, 40. p. 13.

† Gallo Vinti Giornata, Brefeix, 1773, p. 413.

† Riserche full' Antica e Moderna Populazione della Citta di Firenze, 4to. 1775, p. 171. Sig. Paoletti is a fenfible writer, and a good farmer, but he is of Dr. Price's fehool,—" L'antica populazione della Tofcana era certamente di gran lunga fupciiore a quella de' noftri tempi;" - from Boccació, he makes 100,000 to die in Florence of the plague in 1,48; yet, in little more than a century after, there was not half the number in the city; he admits, however, that this is efize ato. Penferi Sopra l'Agricoltura, p. 18.

. Ivere Mezzi Paoletti, p. 58. The Differtazione fulla la Moltiplicazione del Bestiame Tofeano. Andreucci, 8vo. 1773, p. 14. Pie 400,00 In 178

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	Brou	ght for	ward,	42,177
Varano,	•	•		629
Castel Nuovo,	-	•	•	14,576
Frignano,	•	-	•	19,526
Montefiorino,	•	•	•	15,721
Montefe,	•	•		19,694
			Total	112,323
The reft	in the plai	n.		

PIEDMONT.--Subjects in the King of Sardinia's territories, 3,000,000. In Savoy, 400,000. In Sardinia, 450,000. In Turin, in 1765, 78,807. In 1785, it was 89,185. In 1785, births 3394; deaths 3537.

Of the Poor.

MILANESE.—Milan.—Charitable foundations, in the city only, amount to 3,000,000 livres (87,500l. fterling). In the great hospital there are commonly from twelve to fifteen hundred fick: the effect is found to be exceedingly mischievous, for there are

many that will not work, depending on these establishments.

Mozzata.—The labourers here work in fummer thirteen hours. Breakfast one hour, dinner two hours, merenda one hour, fupper one hour, fleep fix hours. They are not in a good fituation. I was not contented to take the general description, but went early in a morning with the Marquis Visconti and Sig. Amoretti into feveral cabins, to see and converse with them. In this village they are all little farmers; I asked if there were a family in the parish without a cow, and was answered expressly there was not one, for all have land. The poorest we saw had two cows and twenty perticle; for which fpace he paid five moggio of grain, one-third wheat, one-third rye, and one-third maize. Another for one hundred and forty perticle paid 35 moggio, in thirds also. The poor never drink any thing but water, and are well contented if they can manage always to have bread or polenta; on Sunday they make a foup into which goes perhaps, but not always, a little lard; their children would not be reared if it were not for the cow. They are miferably clad, have in general no shoes or stockings, even in this rainy seafon of the year, when their feet are never dry; the other parts of their drefs very bad. Their furniture but ordinary, and looks much worfe from the hideous darkness from fmoke that reigns throughout, yet every cabin has a chimney. They have tolerable kettles, and a little pewter, but the general aspect miserable. Fuel, in a country that has neither forests nor coal-pits, must be a matter of difficulty, though not in the mountains. They were heating their kettles with the ears of maize, with fone heath and broom. In the cold weather, during winter, they always live in the stable with their cattle for warmth, till midnight or bed time. For day-labour they are paid 10 f. a day in winter, and 12 f. in fummer. For a house of two rooms, one over the other, the farmer of 20 perticle pays 24 livres a year; that is to fay, he works fo much out with his landlord, keeping the account, as in Ireland, with a tally, a fplit flick notched. They are not, upon the whole, in a fituation that would allow any to approve of the fyftem of the poor being occupiers of land; and are apparently in much more uneafy circumstances, than the day labourers in the rich watered plain, where all the land is in the hands of the great dairy farmers. I drew the fame conclusion from the state of the poor in France; these in the Milanese strongly confirm the doctrine, and unite in forming a perfect contrast with the situation of the poor in England, without land, but with great comforts.

STATE OF VENICE.—The people appear in the districts of Bergamo, Brescia, Verona, and Vicenza, to be in better circumstances than in the Padouan. And from thence to Venice there are still greater appearances of poverty: many very poor cottages, with the smoke issuing from holes in the walls.

Villamagna.—The peafantry, a term which in all countries where the landlord is paid by a fhare of the produce, and not a money rent, includes the farmers, who are confequently poor, live here better than in diffricts more diffant from the capital; they eat flesh once a week; the common beverage is the second mash, or wort of the wine; eat wheaten-bread, and are cloathed pretty well.

SECT. VI. -Of Prohibitions.

PIEDMONT.—The exportation of the cocoons of filk is prohibited; and the effect highly merits the attention of the politician who would be well informed, from practice, of the principles of political aconomy. It is a perishable commodity, and therefore it is not at all likely that if the trade were free, the quantity fent out would be any thing confiderable; yet, fuch is the pernicious effect of every species of monopoly upon the falc of the earth's products, that this prohibition finks the price 30 per cent. While the cocoons fell in Piedmont at 24 livres the rubbio, they are fmuggled to the Genoese at 30 livres; which export takes place in consequence of the monopoly having funk the price. The object of the law is to preferve to the filk-mills the profit of converting the filk to organzi e; and for this object, fo paltry on comparison with the mischief flowing from it, the land-owners are cheated in the price of their filk 30 per cent.; the State gains nothing; the country gains nothing; for not a fingle pound would be exported if the trade were free, as the motive for the export would then ceafe, by the price rifing: the only possible effect is that of taking 30 per cent. on all the filk produced out of the pockets of the grower, and putting it into those of the manufacturer. A real and unequivocal infamy, which reflects a feandal on the government, for its ignorance in mistaking the means of effecting its design, and for its injustice in fleecing one class of men for the profit of another. I demanded why the Piedmontese merchants could not give as good a price as the Genoefe. "They certainly could give as good a price, but as they know they have the monopely, and the feller no refource in an export, they will have it at their own price; and if we do not give them this profit of 30 per cent. we cannot fell it at all." What an exact transcript of the wool laws in England!

Another prohibition here not equally mischievous, but equally contrary to just principles, is that of keeping sheep in summer anywhere in or near the plain of Piedmont; it is not easy to understand, whether the object of this law is that the sheep at that seafon shall be kept in the mountains, or that they shall not be kept in the plain. In winter they are allowed every where. The shepherds buy the last growth of the meadows at 5 livres or 6 livres per gio nata for them, and pay for such hay, as may be wanted in frost or snew.

Corn from Sardinia is not allowed to be exported, but when the quantity is large, and then paying a heavy duty, yet this is the only commodity of the iffind; and the execuable policy that governs it has rendered it one of the most wretched deferts that is to be found in Europe. On account of this duty they pay no land-tax!. No wonder that the authors of such a policy want to fell their inheritance!

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^{*} Riftoramente della Sardegna, 10m. i p. 3.

⁺ Ilid. p 147.

. MILANESE.—The export of cocoons are here also prohibited; and as it is rather more severely so than in Piedmont, the price is of course something lower. The duty on the export of filk is 7) f. per pound.

Keeping sheep in the vale of the Milancse, everywhere prohibited by government, from the notion that their bite is venomous to rich meadows. The same in the Vero-

nese; and there is a defertation in the Verona Memoirs in favour of them.

STATE OF VENICE.—Brefcia.—The cultivation of the mountains is every where prohibited in this republic, left the turbid waters falling into the Lagunes, should fill up those channels, and unite Venice with the Terra Firma. Mr. Professor Symonds has remarked the ill effects of cutting woods on the mountains, relative to the nuschief which rivers in that case do to the plains; it is suspected in Italy, that there are other reasons also; and they have observed in the territory of Aqui, in Piedmont, that hail has done more mischief since the woods have been cut down in certain districts of the mountains, between the Genoese territory and Monteferat*.

Verona.—The export of wheat is prohibited when the price exceeds 24 livres the fack, of eleven pess, of twenty five pound; eleven pess are two hundred and five pound English; and therefore 24 livres equals 26s. 6d. per quarter English of four hundred and fifty-six pounds; apparently a regulation that is me... at as an absolute prohibition. The export of maize also prohibited, when it reaches a certain price, proportioned to that

of wheat. The export of cocoons and unipun filk prohibited.

Vicenza and Padoua.—The export of cocoons prohibited.

Venice.—The export of wool, from the Venetian territory, has been always prohibited. The export of wheat is prohibited, when the price arrives at 22 livres the faceho; but fo much depends on the magistrate, that there is no certainty, and consequently the trade crippled. The flajo, or flavo Veneziano of wheat, is one hundred and thirty-three pounds gross; four flavi one mozzo. The fack of slour is two hundred and four pounds to two hundred and ten pounds. The fack of wheat one hundred and thirty-two pounds gross; As the Venetian pound is about one twentieth heavier than the English, 22 livres the sack about equals, not exactly, 36s. the English quarter, but the ratio of the price is of little consequence, in laws, the execution of which depends on the will of the magistrate. Another prohibition, which marks the short and sallacious views of this government, on every object but that of their own power, is in the duration of leases; no person is allowed to give a longer one than for three years; which is in fact to declare by law that no renter shall cultivate his sarm well.

Ecclesiastical State.—*Bologna*.—The government of this country, in respect to taxes, is the mildest perhaps in Europe; but it loses much of its merit by many prohibitions and restrictions, which have taken place more or less throughout Italy. Silk cannot be fold in the country; it must all be brought to the city. All wood, within eight miles of the same place, is a similar monopoly; it can be carried no where else. The export of corn is always prohibited, and the regulation strictly adhered to; and it may be remarked that the price is never low; the natural, and probably the universal effect of such a policy, must be a high price instead of that low one, which is the object

of the State.

Tuseany.—In the flates I have intherto mentioned, to name prohibitions is to exemplify their mifehief in the conduct of all the governments, through whose territories

* Memoire della & . gravia, vol. iv. p. 3.

De la Lande's Voyage en Italie, tom. vii. p. 81.

⁺ Tratto della Prato di Geometria Perini, 4to. Verona, 1751.

⁶ On this point fee Mr. Professor Symonds' excellent paper in the Anuals of Agriculture.

I have yet passed; but in Tuscany the task is more agreeable—to give an account of prohibitions there, is to shew the benefit of their reversal, and of that system of free-

dom, which the late beneficent fovereign introduced.

In 1775 an unlimited freedom in the export and import of corn was established. The effect of this freedom in the commerce of corn has been very great; in the first place, the price of corn has rifen confiderably, and has never for a moment been low; the rife has been fleady; famines and any great fcarcity have been abfolutely avoided, but the augmentation of price on an average has been great. I was affured, on very respectable authority, that landlords, upon a medium of the territory, have doubled their incomes, which is a prodigious increase. This vast effect has not flowed immediately from the rife in the price of corn, but partly from an increased cultivation in consequence of that price, and which would never have taken place without it. On the other hand, the confumers feel a very great rife in the price of every article of their confumption; and many of them have complained of this as a most mischievous effect. I was affured that these prices have been doubled. Such complaints can be just only with respect to idle consumers at fixed incomes; a pension or an annuity is undoubtedly not fo valuable now as it was before the free corn trade; this is clear; but it is equally certain that landlords, and all the mercantile and indultrious classes profit greatly by the general rife: this fact is admitted, nor would the improvement of all the arts of industry, the situation of the poor most highly ameliorated, and the increase of population allow it to be questioned. Before the free trade the average price was 5½ pauls (each 5 d.) per ftajo, of fifty-four pounds; now the average is 9 pauls. Here is a rife in the price of 40 per cent. Those whose interests, or whose theories point that way, will contend that this must be a most pernicious evil, and that the consumers of corn must suffer greatly; it however happens, and well it deserves to be noted, that every branch of industry, commercial and manufacturing, has flourished more decidedly since that period, than in any preceding one, fince the extinction of the Medici. This is one of the greatest political experiments that has been made in Europe; it is an anfwer to a thousand theories; and ought to meet with the most studious attention, from every legislator that would be thought enlightened.

No body can express himself better against the regulations in the corn trade, than Paoletti:-" Uno dei più gravi e dei piu folenni attentati, che in questo genere si sia fatto, è che ancora, da una gran parte dei politici governi si fà all' ordine naturale é certamente quello, delle restrizioni è dei divieti nel commercio de grani. Non han conosciuto mostro il più orribile, il più funeste quelles fortunate nazioni che ne seno state infestate. Le pesti, le guerre, le stragi, le proscrizioni dovunque aprirono il teatro alle loro tragedie non arrecarono mai

tanti danni al genere umano, quanto questa arbitraria politica "."

It is remarked, by a very intelligent writer, that the early declension of Tuscan agriculture, was caused by the ill-digested and injurious laws of restriction and prohibition, in the beginning of the fixteenth century: the price of provisions was regulated, in order to feed manufacturers cheaply, not perceiving that the earth gave feanty fruits to poor cultivators; that exalting the arts by the depression of agriculture, is preferring the shadow to the body. Wool was wanted for the fabrics, yet no encouragement given to breeding theep. Merchants and manufacturers composing the legislative body, whose interests were concentrated in Florence; all the other towns, and generally the country, were facrificed at the shrine of the capital: they made a monopoly of the Levant trade, and even of ship building; which had such pernicious consequences, that in 1480, they

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of that work commerce et pi alluded to, a

^{*} Iveri Mezzi, &c. Ap. Apol. 1772, 8vu. p. 19.

were obliged to lay open the remnants of trades once flourishing *. They shewed the greatest eagerness to encourage the planting of mulberry-trees; yet knew so little of the means of doing it; that they subjected the sale of cocoons to a multitude of restrictive regulations, and even fixed the price, and gave a monopoly of the purchase †; and even the power of fixing the price of filk was, by the government, given to four dealers; and in 1698, the whole trade was subjected to the price of one man; and such was the effect of these fine measures, that a law was passed forcing plantations of mulberries; four trees to every pair of oxen employed t. So utterly subversive of the intention will the prohibitory fystem always prove!

By the edicts of 1775, 1779, and 1780, of the Grand Duke, a multitude of restrictions, on the fale of cocoons and wool, and on the fabric of both filks and woollens, were abolished. A free trade in corn, oil, cattle, and wool, was given § about the same time; as well as the rights of commonage destroyed ||. By the edict of March 18, 1789, the plantation and manufacture of tobacco was made free; and, that the farmers of the revenue might not be injured, the benevolent fovereign declares he will buy all cultivated on the usual terms, till the expiration of the farmer's leafe ¶.

I am very forry to add to the recital of fuch an enlightened fyftem, a conduct in other respects borrowed entirely from the old school: the export of cocoons has been long prohibited; and even that of fpun filk is not allowed. But what is much worse than this, the export of wool, about fix months ago, was forbidden, under the shallow pretence of encouraging manufactures. Such a monopoly, against the agriculture and improvement of the country, is directly contrary to the general spirit of the Grand Duke's laws. The fame arguments which plead in its favour, would prove equally in favour of prohibitions, and shackles on the corn trade; he has broken many monopolies: Why give anew one? The most plausible plea for this is the example of England; but does he know that of all the fabrics of that kingdom, this of wool is the least flourishing; and precifely by reason of the manufacturers having the monopoly of the raw material, and thereby being enabled to fink the price 60, and even to 70 per cent. below the common rates of Europe? The total failure of this policy in England, which cheats the land of four millions a year, in order not to increase, but to hurt the fabric, should plead power-They should know that the raw materials of fully against so pernicious an example. our most flourishing fabrics are exportable; some free, and others under low duties; and that wool is an exception to all the reft; and at the fame time, the manufacture that has made the least progress **.

Modena. - The export of wool is prohibited; wherever this is the case, it is not to be expected that any exertions can be made in improving the quality; and accordingly we find that all the Modenese is miserably bad. The measure is intended as a gratification to the manufacture; and when that possesses the monopoly, the wool is sure to be

Ragionamente Sopra Tofcano, 68.

[†] Cosmo 1 first allowed the export of cocoons, February 22, 1546; subject to a duty of 18f the pound, of one fort, and 3st the other; augmented successively, and at last sixed to 2 livres.

[‡] Ragionamente, p. 83.

[§] Leggi dei, Sep 14, '774; Dec. 28. Also, Aug 24, and Dec. 11, 1775.

March 7, and Apr 11, 1778.

Della Collivazione del Tobacco, Lastri. Firenze, 8vo. 1789, p. 40.

^{**} See this point particularly explained in Annals of Agriculture, vol. x. p. 235, and in many other papers of that work oome of these memoirs were translated and published in French, under the title of Filalure, commerce et prix des Laines en Angleterre, 8vo 1790; but fome of the best papers, for instance that above alluded to, and others, were left out of the collection.

worthless; which is the case here. They make in the mountains, some coarse things for the wear of the common people;

PARMA .- There is a fabric of earthen-ware at the city of Parma, to encourage which the import of all foreign ware is prohibited; the effect is, that the manufacture is contemptible, without an effort of improvement; it has the monopoly of the home confumption, which yields a great profit, and further nobody looks. It was juffly observed to me, that with such a favour no flourishing manufacture could ever arise at Parma, as the advantage of the monopoly was greater. The policy of prohibitions has every where the fame refult.

SECT. VII.—Of the Prices of Provisions, 1789.

Nice.—Bread, 3f. (the Piedmontese fol is the twentieth part of a livre, or a shilling, and the pound is about one-tenth heavier than the English.) Beef, 3 f. 8 den. Muiton, 4s. Veal, 5s. Butter, 12s. Cheese, 11s. Bread, last winter, 1 piccolin (onefixth of a fol) cheaper. At these prices of meat, weighing-meat added.

Coni.—Bread 2s. 3 den.; for the poor, 1 ss. Beef, 3s. 2 den.
Turin.—Bread, 3s. Veal, 5s. Butter, 9s. Cheefe, 9s. Brown bread, 2 ss.; for the poor, 1s. 8 den. Nobody but the poor eats beef or mutton.

Milan. - Beef, 13s. Cow ditto, 10s. (the fol the twentieth of the livre, which is 71d; the pound graffo is to that of England, by Paucton, as 1.559 is to 0.9264). ton, 101/s. Veal, 15/s. Pork, 18/s. Butter, 35/s. Cheefe, Lodizan, 42/s.

Codogno.—Bread, 4 oz. 1/s. Beef, 12/s. per lb, Veal, 12/s. Butter, 22/s.

Verona.—Bread, 5/s. per lb. of 12 oz. (equal to \(\frac{1}{4}\) lb. English). 20 Venetian fols

equal to 6d. English.

Vicenza.—Beef, 14s. per lb. of 12 oz. groffo; this ounce is to the English, as 690 is to 480. Mutton, 13/. Veal, 16/. Pork, 17/. Butter, 30/. Cheefe, 32/.; ditto of Lodi, 44/. Hams, 44/. Bread, by the ounce fotile (which is to the groffo, as 1 is to 11), 6/.

Padua.—Beef, 14s. per lb. of 12 oz. grosso (which is to the English pound, as 9966 is to 9264. Paucton). Mutton, 12f. Veal 16f. Pork, 16f. Butter, 22f. Cheefe, 24f. Venice.—Beef, 15%, per lb. groffo (to that of English, as 9758 is to 5264. Paucton.)

Mutton, 13/. Veal and pork, 18/.

Ferrara. - Beef, 3! baiocchi (10 to a paul of 6d.) per lb. of 12 oz. Mutton, 3 baioc.

Veal, 4 baioc. Butter, 9 baioc. Cheefe, 8 baioc.

Bologna.—Bread, 2 baiocchi per lb. (to the pound English, as 7360 is to 9264, Paucton). Beef, 4 baioc. 2 quatrini. Mutton, 3 baicc. 4 quat. Veal, 5 baioc. 2 quat. Pork, 6 baioc. Butter, 10 baioc.; and in winter, from 15 baioc. to 20 baioc.

Florence.—The livre (of 81d.) is 12 grazie, or 20 foldi, the fol is 3 quatrini; and the pound is three-quarters English. Bread, 8 quatrini per lb. Meat in general, 7!/.

Butter, 14 paul (the paul 51d. English.) Cheese, 10f.

Modena.—Bread, the best white, 4 paul per lb. (the paul is 6d. English; and the pound is to ours, as 6513 is to 9264, or foracthing under twelve of our ounces). For the poor it is cheaper. Bread is thus dear, owing to the entrées and gabelle; a fack of flour, of 70 livres fells at 100 livres. Beef, 12 bolognini per lb. Mutton, tof a pau, or 10 bol. Veal, 13 bol. Pork, 14 bol. Butter, 1 paul. Cheefe, 40 bol.

Lanesbourg .- Bread, 4f. for 18 oz. Meat of all forts, from 3f. to 3ff. for 12 oz.

Cheefe, from 4/. to 51/. Butter, 6/. for 12 oz.

Corn

PIEDA Chento 15/. M Turin. I Ogli Milan 20 livres. Codogn cio broad. Verona. English q from 20 Venice .-Common Bologna 16 pauls. Florence this is 4s.

Nice .-Chentale Turin. 36 pints, e 3 feet long Lime, 51%. Milan .-30 livres pe Mozzata Milan. Oil, linfeed

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5 pauls,

Verona. Vicenza .-Charcoal, f Wood, the fize of a m

late, 31 livr is to the ou &c. By th is to 11.

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Corn, 1789.

PIEDMONT. - Coni. - Rye, the eymena of 2 rubbio, or 50 lb. 3 liv.

Chentale. - Wheat, the eymena of 45lb. aver. 47, 3 livres 15f. In common, 3 livres 15s. Maize, 2 livres.

Turin.—Maize, 2 livres. Wheat, 3 livres 10f. the eymena of 50 lb. Rye, 2 livres

Milan.—Wheat, 34 livres the moggio of 140 lb. 28 oz. Oats, 15 livres. Maize, 20 livres. Miglio, 18 livres. Rice, 44 livres.

Codogno.—Rice 5 livres the flara. Willow wood, 14 livres 6 braccio long and 3 braccio broad. Flax, 51f. for 5 oz. ready for combing; 50f. per lb.

Verona.—Wheat, the export prohibited when it exceeds 24 livres the fack (26s. 6d. English quarter). Maize, now 24 livres the sack, of 11 pess, of 25 lb.; common price;

from 20 livers to 22 lives; has been fo low as 6 livres. Venice. - Wheat flour, 81/2, per lb. Bergamasque maize, 24/2, the quarterole, of 6 lb.

Common maize, 22/. Bologna.—Whear, the corba, 24 pauls. Maize, 18 pauls. Oats, 12 pauls. Barley,

16 pauls. Beans, 18 pauls. Florence.—Wheat, o pauls the ftajo, which may in a rough way be called 1d. per lb.: this is 4s. 9d. per Englith bushel, of 57 lb.; and 5s. per bushel, of good wheat. Before the free corn trade, it was on an average, at 5½ pauls. Beans, now 5½ pauls to 7 pauls. Saggina (great millet), 4 pauls the stajo. Maize, from 4 pauls to 5 pauls. Barley,

Wine, Fuel, Hay, Straw, &c.

Nice.—Wine, 7/. the bottle. Charcoal, 24/. per 100 lb. Wood, 15/. per 100 lb.

Chentale. Hay, from 5f. to 8f. the rubbio, of 25 lb.

5 pauls. Oats, 4 pauls. French beans, 7 pauls.

Turin.—Hay, 10s. the rubbio. Straw, the same. Wine of Brenta, 7 livres 10s. the 36 pints, each 4 lb.; for the poor, 4 livres. Wood, 12 livres the load, of 200 pieces, 3 feet long. Charcoal, 12½/. the rubbio. Candles, from 9f. to 10f. Soap, 7f. Lime, 51f. the rubbio. Gricks, 22 livres per thousand.

Milan. - Iron, the pound of 12 oz. 5f. Charcoal, 100 lb. of 28 oz. 3 livres. Bricks,

30 livres per thousand.

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Mozzata. - Wine, common price, 10 livres or 12 livres the brenta, now 6 livres. Milan.—Hemp, ready for spinning, 1 livre per lb. of 28 oz. Flax, ditto, 321/. Oil, linsced, per lb. of 28 oz. 26s. Walnuts, 1 livre.

Verona.—Wood, 51. the peso, of 25 lb. (18 lb. English.)
Vicenza.—Candles, 2011. Soap, 201. Dutch herrings, 31. each. Iron, 111. groffe. Charcoal, from 5 livres to 8 livres the 100 lb. Coals, from Venice, 41 livres the 100 lb. Wood, the carro, of 108 cubical feet, 22 livres; of oppio, walnut, &c. the pieces the fize of a man's arm. Sugar, from 25 f. to 35 f. fatile. Coffee, 3 livres 6f. late, 31 livres or 4 livres; with vanilla, 6 livres or 7 livres. By the ounce groffo, which is to the ounce English, as 690 is to 480, is weighed flesh, butter, cheese, candle, soap, &c. By the ounce fotile, is weighed fugar, coffee, drugs, rice, bread, filk, &c.; it is as a is to 1 1.

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Bologna. - Wood, the load, 30 pauls. Faggots, 24 livres per two hundred. No coal. Charcoal, 11 paul the corba. Bottle of common wine, from 3 baioc. to 4 haioc. : common price of wine, from 20 pauls to 30 pauls the corba of fixty bocali. Sugar, 2 pauls 1 baioc. the und. Coffee, 2 pauls 2 baioc. Of Moka, 3 pauls 5 baioc. Candles. 8 baioc. Wax ditto, 8 pauls. A footman with a livery, 50 pauls a month. A man cook, from 20 to 40 zecchins. An English gentleman's table is served, nine in the partour and five in the kitchen, by contract, for 20 pauls a day.

Florence.—To plough a stiora of land, 3 livres. Hay, 4 pauls the one hundred pounds (about 2l. 15s. a ton). Straw, 3 pauls per one hundred pounds. Wine, 8 grazie the bottle. Charcoal, one hundred pounds, 4 pauls. Wood, the cataster of six braccia long, one and a half broad, and two high, 28 livres. Rent of a poor man's house, 18 pauls.

Modena.-Wood, 45 livres the load, of three braccia long, three high, and three broad. Wine, 40 livres the twelve pefi. Candles, 20 bol. Soap, 15 bol.

PARMA.—Hay, eighty pesi, 150 livres (the pesi twenty-five pounds, each three fourths of a pound English, and the livre 21d. about 11. 9s. per ton).

Labour.

Nice.—Summer, 30f. (1s. 6d.) Carpenter and mason, 40f. (2s.)

Coni.—Summer, 14 f. Winter, 10f. (6d.) Mason, 25 f.

Savigliano. - Summer, 12f. Winter, 10f. Farm fervants wages, about 100 livres, (51.) a year, befide their food, which confitts of three pounds or four pounds of bread, according to the feason, a soup maigre, a polentia (a maize pudding), &c. &c. During the fummer, they add cheefe and a little finall wine, with a fallad; and in harvest time a foup of good wine, which they call merendon, but they then work twelve hours a

day.

Turin.—Summer, 11f. Mason, 25f. Carpenter, 27f.

Winter, 10f. (8d.) Winter, 10f. (Milan to Pavia. - Summer, 221 f. (8d.) Winter, 10f. (31d.) Manufacturers, 40f. Labourers pay 7 livres (at 7d. English) for a cottage, and a very little garden.

Mozarta.-Summer, 12/. Winter, 10/.

Ledi. - Summer, 20s. Winter, 12s. Harvest, 30s. Mowing, 20s. a day; a good hand mows five pertiche a day.

Codogno. - Weavers, 20f.

Verona.—Summer, 30f. (9d.) Winter, 20f. (6d.)

Vicenza.—Summer, 16f. Winter, 14f. Mowing, 30f.

Padeua.—Summer, 25 f. and wine. Mowing, 2 livres (1s.) a day: wheat, 3 livres ditto. Winter, 16/.

Venice. - Summer, from 30s. to 40s. Mason, 4 livres: the lowest in the arsenal, 3 livres a day.

Ferrara.—Summer, 25 baiocchi (1s. 3d.) Winter, 12 baioc.

Bologna.—Summer, 12 baioc. and 2 bocali of wine, each three pounds four ounces. Winter, 10 baioc. (6d.) In harvest, to 20 baioc. Half a day, of four oxen and two men, 5 paoli (2s. 6d.) Manufacturers earn from 5 to 20 baioc. a day. The women that fpin hemp, 3 or 4 baioc.

Florence.—In the filk mills of Florence, they are now (November) working by hand, for want of water. The men earn 3 pauls (18. 4 d.) A girl of fifteen, 1 paul (5 d.) In the porcelaine fabrics of the Marchefe Ginori, common labour, 2 or 3 pauls. Painters, 4! pauls. In furnmer, 1½ paul and food. In winter, 1 paul and ditto. To plough a fiora of land, 3 livres. Threshing corn by the day, 1 livre and food. Cutting corn, 18 grazie and food.

Modena. - Common labour, 1 paul and wine. Carpenter and mason, 2 pauls.

PARMA. - Printer's men, 3 pauls a day, (161d.)

Lanesbourg. - Winter, rof. and food. Summer, 20% and food.

Poultry.

Nice.—Turkey, 7 livres. Fowl, 20f. Pigeon, 20f. Eggs, 12f. the dozen.

Turin.—Turkey, 3 f. Fowl, 15f. Duck, 25f. Goofe, 25f. Pigeon, 10f. Eggs, the dozen, 8f.

Milan.—Turkey, 11s. per pound. Fowl, 20s. Duck, 32s. Eggs, the dozen, 26s.

Capon, 15 f. per mund.

Bologna.—The hout four pounds 3 f pauls. Pair of capons, 30 halocchi. Eggs, 2 haloc. each; in a halocchi. Eggs, 5 halocc

Modena. — and paul. Fowl, 40 bol. Turkey, 4 livres. Duck, 4 livres.

Twenty eggs, 25 b geons, 1 paul the pair.

Rife of Prices.

Milan.—In 794, a decree of the Senate and Diet of Frankfort, canon four, that corn should fell at the following prices, no regard to scarcity and abundance:—Moggio of oats 1 denaro; one of barley, 2 denari; one of rye, 3 denari; one of wheat, 4 denari; proportion 1080 to 1.

In 835, hogs, 20 denari.

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h a iora In 857, one pound of filver, lira, 20 folds of 12 denari; one denaro, now at Milan, on comparison of an attent denaro of half a paolo, was as 1 to 90; for 90 denari make nalf a paol. The value of filver now to that of antient times, as 1 to 12; therefore it is 1 to 1080.

In 970 any and at vino, 1 denajo; un moggio di frumento, 4 denaji; un carro di legna,

a uenajo, equal to 18 livres, at 1 to 1080 to

In 1152, ryc and panic, 3 livres the moggio; 1 denaro equal to 130; consequently 3 livres is equal to 13 livres icf. to den. 1

In 1165, 500 hogs, each 6 foldi; which now we must call 65 livres each ||.

load of wood drawn by a pair of oxen, 12 denari; equal now to 6 1 livres.

In 1272, 1 moggio of wheat, the common price 19 foldi. Millet, 12 foldi; and this to the money of the present time, is as a livre for a fol; that is, wheat 19 livres and millet 12 livres §.

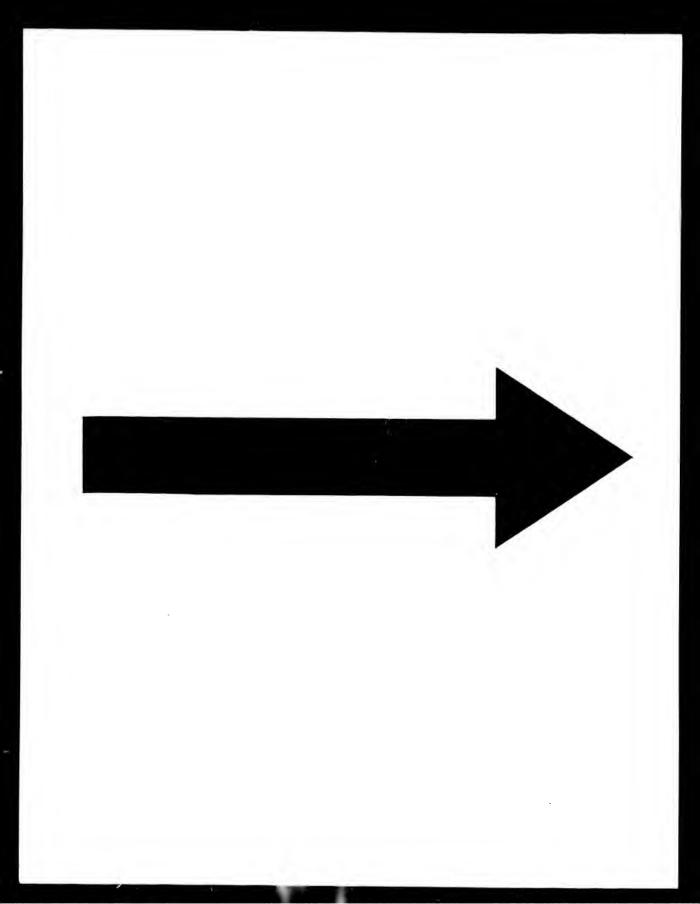
In 1315, 1 foldo for a mass, equal to twenty now; 1 forino d'oro, 30s. now 60 livres, as 1 to 40; the fivrino d'oro ancient, and the present recchino the same thing. From this time to the present, the proportion of the money of those times to the present, is as 1 to 4.¶

In 1402, the forino o ducato d'oro, worth 42 soldi, equal to 16 livres 8s. at present **.

Bologna.—The prices of every thing are now at Bologna from 10 to 15 per cent.

dearer than ten years ago; here attributed to the increased plenty of money from a rise of

^{*} Giulini, Storia di Milano, vol. i p. 62. † Ibid. vol. ii p. 380. † Ibid. vol. v. p. 527. † Ibid. vol. vi. p. 332. § Ibid. vol. viii. p. 254. † Ibid. vol. x. p. 87. † Ibid. vol. xii. p. 63. † Ibid. vol. xiii. p. 64. † Ibid. vol. xiii. p. 64. † Ibid. vol. xiii. p. 65. † Ibi



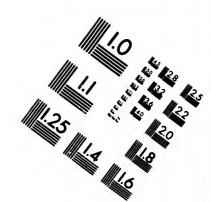
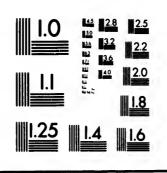


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SIM PIM GZ



the price of the products of the country, hemp and filk felling much higher. Twenty years ago hemp was at 30 pauls, new at 50. And in Tuscany the prices of every thing doubled fince the free corn trade.

It is worthy of the reader's observation, that the general prices of provisions and of living, as it may properly be called, have rifen perhaps as much in Italy as in any country in Europe; certainly more than in England, as I could shew by many details if they were confiftent with the brevity of a traveller. A fact of fo much importance would admit of many reflections; but I shall observe only, that this sign of national prosperity (and I believe it to be one), is not at all confined to the countries in the possession of extensive manufactures and a great trade, since we find it in those that have none.

I shall not enlarge upon it, but barely hint that the possessor of a landed estate in Lombardy has raifed his rents to the full as much in the last ten, twenty, thirty, or forty years, as his brother landlord has in England, who has bleffed himself with the notion that manufactures and commerce have done more for him, than for any other fimilar class in Europe. It is very common in the English parliament, to hear the deputies of our tradefmen expatiate on what the immense manufactures and commerce of England have done for the landed interest. One fact is worth an hundred affertions: go to the countries that possess neither fabrics nor commerce, and you will find as great a rife perhaps in the fame period.

SPAIN

Cultivation, &c.

THE vale of Aran is richly cultivated, and without any fallows. Follow the Garronne, which is already a fine river, but very rapid: on it they float many trees to their faw-mills, to cut into boards; we faw feveral at work. The vale is have but the hills to the left are cultivated high up. No fallows. They have little wheat, but great deal of rye; and much better barley than in the French mountains. Instead of fallows, they have maize and millet; and many more potatoes than in the French Haricots (French beans) also, and a little hemp. Saw two fields of. mountains. vetches and square pease. The small potatoes they give to their pigs, which do very well on them; and the leaves to their cows; but affert that they refuse the roots. Buck-wheat also takes the place of fallow, many crops of it were good, and some as fine as possible.

The whole valley of Aran is highly peopled; it is eight hours long, or about forty miles English, and has in it thirty-two villages. Every one cultivates his own land. A journal of meadow fells in the valley for 800 livres irrigated, but by no means so well as in the French mountains, nearly an arpent of Paris, which is something more than an English acre. The lower arable lands are fold for 500 livres or 600 livres; the sides of the shills proportionably; and the higher lands not more than 100 livres. Their crops of all forts vary from two and a half to three quarters English the acre. Hay

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The route-in which these observations were made, is marked in theijournal inserted in the first volume; alfo the dates.

The mountains belong as in the French Pyrennees, to the patishes; each inhabitant has a right to cut what wood he pleases for fuel and repairs, in the woods assigned for that purpose; others are let by lease at public auction for the benefit of the parish, the trees to be cut being marked; and in general the police of their woods is better than on the French side; when woods are cut they are preserved for the next growth.

Have scarce any oxen; what few they kill they salt for winter. Taxes are light; the whole which a considerable town is affested at being only 2700 livres, which they pay by the rent of their woods and pastures let: but if calculated by tailles, houses, &c. and including every thing, the amount would be about 3 livres a-year, on a journal of 600 livres value. This is the proportion of an acre of land worth 301 paying 3s. a year in lieu of land and all other taxes.

Coming out of Veille, fee to the right fome of the most stoney land I have ever beheld, yet good hemp and buck wheat were growing on it. In the hedges many of the plants common to them in England. The pastures on the mountains good quite to the show; but the low meadows not watered with the attention given them by the French in their Pyrennees. Pass several of the thirty-two villages of the valley of Aran; population very great for they croud on each other; and this results here from the division of property, and not from manufactures, which have more than once been supposed the only origin of great population.

Much millefolium here, and other plants common with us. Plough with bullocks; all we faw pale reddish or cream-coloured, and with horns.

No wood at the top, but pasturage and rocks of micaceous schistus; met a great herd of dry cows and oxen cream-coloured. It is remarkable that a pale reddish cream-colour

holds from Calais quite across France hitter, with very little variation.

Flocks of sheep and a penn for oxen and cows—the latter milked for cheese. Plough with oxen in yokes and bows as in England, and not yoked by the horns as in the south of France. Come to fallows (which is a point of worse husbandry than we have seen for some time), manuring by assess loaded with baskets. The trees here (pines) are since than on the Elemen side; they are all cut for the Toulouse market, being carried over the mountains and sloated down the Garronne; from whence we may draw conclusions on the comparative demand of the two kingdoms. Land sells here from 400 livres to see livres the journal.

Come to the valley d'Esteredano, where wheat and rye are cut. Every scrap on the descent is cultivated; an extensive savage view of mountain, with patches of culture

fcattered about the declivities: but fallows are found here.

Pass Rudase, on the top of a rocky mountain, come presently to vines, figs, and fruit trees; snow in fight. As we descend to the vale, every spot is cultivated that is

capable of being fo.

Crois the river to Realp; about which place is much cultivation, as the mountains flope more gently than hitherto. Hedges of pomegranates in bloffom. The town is long and has many shops. Hemp is the great object in it; of this they make ropes, twine of all forts, bags, and have some looms for converting it into cloth. Corn and hay all carried on panniers.

Pass Sort, a vale spoiled by the river, which exhibited the depredations of the Italian

rivers, fo excellently described by my learned friend Mr. Prof. Symonds.

Hitherto, in Catalonia, we have seen nothing to confirm the character that has been given of it; scarcely any thing has a tolerable appearance. It is much to be questioned, from the intelligence, whether they have any such a thing as a farmer who rents land; only patches of property; no maize, and French beans very poor; fallows every where

on the hills, and yet the rye after them miserable. Old vineyards of late quite neglected, over run with weeds, yet the grapes of a fize that shew what the climate is; they are now as big as peafe. In the towns every thing as bad; all poor and miserable.

Rifing up the mountain, which is all of pudding stone, we find it is all cut into terraces, supported by many walls, with rows of vines on them for raisins, not wine, mulberries, and olives: but here are fallows, and I thought I perceived traces of these hills

having been formerly more cultivated than at present.

País Colagele. Come to a regular vineyard, the rows twelve feet afunder, the intervals alternate fallow and corn. The features of the country now begin to relax, the mountains are not fo high, and the vales are wider. The leaves of a good mulberrytree fell for 44 f. or 22d. English.

Many walnut-trees full of fruit. Much is tithed by the church: fee much corn

threshing every where.

Cross two pieces that had rye last year, lest now to weeds, and will be under rye again next year; an extraordinary course. Mulberry leaves never sold, but if so, the price would be about 41 livres a tree. Cows all red. Land in the vale fells from 20l. to 251. English the journal. The road leads up Monte Schia, the whole of which consists of a white stone, and argilaceous marl. Snow on the distant mountains.

Look back over a great prospect, but totally to the eye without wood. Cross a hill to another great vale, where is much, and some rich cultivation, as the hills are not

fteep, but floping.

Pass in fight of St. Roma, near it the road leads by a small round lake, but it is on very high ground, no hills near it; it is faid to be very deep. Here they were hoeing a barley stubble, just ploughed, to form ridges, on which they sow French beans. This district is called that of shells: millet just up; pass a large waste almost entirely covered with lavender; corn on a part of it; but after a crop, they leave it to weeds to recover again. Here also they practise the alternate husbandry of one bed, or broad-ridge, corn, and another fallow. Plow with cream-coloured oxen. In breaking up the wastes here, they cut the spontaneous growth to dry, then pile it into heaps with the earth pared and placed on it; this is all burned; we faw heaps ready to be burned to the quantity of five hundred loads an acre: but the crops are wretched for many miles, fearcely the feed again.

In our inquiries, meet with fome traces of what in Fra are called metayers, that is, a fort of farmers who cultivate the land for half the pra-; the landlord taking one

half, and the tenant the other.

For two hours and a half, pass a waste mountain covered with shrubs, and seattered with ever-green oaks, and lower down the evident remains of old terraces, which have once been cultivated, but now over-run with weeds. To Fulca; the ploughs here have all long beams, as in the fouth of France, which reach to the yokes of the oxen, and confequently they have no traices; two finall sticks form the mould-board; they plough all flat.

In this district not one acre in an hundred cultivated, all rocks, shrubs, and weeds, with patches of wretched oats on the mountain fides. The road leads up one which is all of stone, covered with rolemary, box, brambles, &c. At the top break at once on the view of a deep vale, or rather glen, at the bottom of which a muddy river has spoiled the little land which might have been cultivated. The hills are steep, and all

is cultivated there that could be fo, but the quantity very fmall.

Descend into a very rich vale, and to the town of Paous. There we saw many perfons winding filk, the cocoons were in warm water, and wound off by a well-contrived reel, fomething different from those used in France.

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Meet journal, They sta the strav winter u

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There but not fe fruit trees nothing f those tree more cult ries, and has not b a vineyar fallow, to

Leave than we l not learn planted b a reddifh most of ti

Prices.

Prices.—Bread, 3 f. per pound, of twelve ounces.

Mutton, 6 f. per pound, of forty-eight ounces.

Pork, 15 f. per pound, of forty-eight ounces.

Bottle of fweet white wine, 5 f.

Bottle of fweet red wine, 2 f.

Here they were threshing, by driving mules around on a circular floor of earth, in the open air; a girl drove three mules round, and four men attended for turning, moving away the straw, and supplying the sloor with corn. Their crops are all brought home by mules or assess with panniers; met several; they each carried six sheaves, equal to twenty common English ones; where roads are bad, this is the only way in which it can be done.

Pass a great waste of argillaceous marl, in which are strata of tale: much of it a soft white rock; the strata in some places clear and transparent, shining, break in thin slakes; the country for many miles waste, so that there are not more, I guess, than one acre in two hundred cultivated.

More deserts for several miles. Some alternate fallow husbandry between vines, and the crops so contemptible, that they produce not more than the seed. Pass some vine-yards surrounded on every side by deserts; no water, and yet the vines and grapes are of the most beautiful luxuriance; from which I conclude, that immense tracts of these waste lands might be applied with equal profit, if there were men and capitals enough in the country.

Meet a farmer, who pointed out to us a piece of land, containing exactly a Catalonia journal, from which it appeared to be pretty nearly the same measure as an English acre. They stack their corn by the threshing sloor, drive mules, &c. around upon it, and draw the straw, when cleared, with ropes by a mule to the stack, in which it is deposited for winter use.

To Beofca, mostly desert hills, but some broad vales, which are cultivated; about that place many mulberries, vines, and corn, but all the last gained by fallow. A farmer here pays a seigneur, who lives at Barcelona, 2000 livres a year for his farm, which is reckoned a large one. Through all this country, they collect from every waste spot amongst their cultivated lands shrubby wood and weeds, with which they burn heaps of clods and earth, and spread the ashes on the fallow as a manure for corn.

There seems every where to be inclosures sufficient for ascertaining distinct properties, but not for security against any sort of cattle. No where any wood to be seen, except fruit trees, olives, or ever-green oaks, which are almost as sad as the olive; altogether nothing for beauty of landscape. The hills all rocks, and the vales vines, scattered with those trees. Some new plantations of vines. Towards Toora, the country is much more cultivated; the sides of the hills covered with olives. The vale has many mulberries, and much tillage; and for some miles past there are many scattered houles, which has not been any where the case before: remarked one great improvement, which was a vineyard, with vetches sown in the alternate husbandry between the rows, instead of a sallow, to be followed by corn.

Leave Calaff.—Crop and a fallow; fome vetches; much cultivation; and better corn than we have in general met with; fome fown in squares, as if in clusters, but could not learn the fact. In some parts many vetches, instead of being fallow; they are planted by hand, and wheat sown after. The soil, a good adhesive loam, brown with a reddish hue, better than the white land, which travelled with us so long yesterday; most of the corn cut.

Great waste, and mount a hill, from whence an extensive view; all the country alike, no wood; and not one acre in ten cultivated. Pass four or five cream-coloured bullocks, and one or two blood-coloured. I note them, having seen so few in so many miles.

French beans, eighteen inches by twelve; a good deal of cultivation; but vast wastes, and country of a rocky, savage aspect; many pines, but poor ones. Within four hours of Montserrat, vines at fix feet asunder, the first we have seen planted in that manner, which shews the proprietor content with having one product only on the ground.

Wastes continue; not one acre in a hundred cultivated. All broken country, and

fcarcely any vales of breadth.

At the bottom we came again to olives. Meet two very fine cream-coloured oxen, which the owner fays would fell for about eighteen guineas; feeds them with straw, but gives dats or barley when they are worked; they are in such good order, that the straw must either be much more nourishing than ours, or their work very light indeed. From the marks in the pine-trees, conjecture that they draw resin from them.

Pass Orevoteau, where is a hedge of aloes about four feet high. A gradual descent for some time on a wretched stoney desert, of nothing but aromatic plants, thin, and scattered with the dismal ever-green oaks, more dull and disagreeable, if possible, than

the olives.

Near Esparagara, vines at five or fix feet, which cover the ground; red loam, mixed with stones. This town is the first manufacturing one we have met with, or which seemed to be animated with any other industry than that of cultivation. The fabric is woollen cloths and stuffs. Spinners earn 6 f. a day, and food. Carders, 11 f. They have also many lace-makers, who earn 9 f. a day. These are Spanish money; their foll is something higher than the French, which is our halfpenny.

Fallow every where, yet many of the stubbles sull of weeds. Corn yet in the field, and poor. Some vines promiscuous, at four feet; some in rows, at six feet. Country disagrecable; many beds of torrents, without a drop of water, and shocking to the eye. Apricots, plumbs, melons, &c. ripe, sold in the streets, from the open ground. A pair of very fine cream-coloured oxen, 24l. English: the amazement is, how they can be kept in such order, in a country so arid and desert, and that has not a pound of hay in it.

The country now is far more populous and better built: many vines and great cultivation, but with fallows. The foil all a ftrong red loam; a way cut through a vineyard of this foil, which shewed it to be seven feet deep; at the bottom was a crop of fine hemp; indeed the foil to the eye was as good at the bottom as on the surface.

They plough with mules abreast, without a driver, having a line for reins, as in England; the beam of the plough is long enough to reach to the circular iron, about nine inches under the yoke, to which the mules are collared. The yokes are like those in which oxen are worked, only with collars instead of bows. This method, which is very common in France also, has both its advantages and disadvantages; it will be a light draught, when the pitch of the beam is proportioned to the height of the mules, but if the share must be raised or lowered according to their height, it will be bad both for the land and the animals. To have the line of traction, from the draught to the body of the plough, is not quite correct, but it is much better than the common plough beams, made either too long or too short: in this case the length of the beams is ascertained; but the chief origin and intention of it is cheapness. The mould-board of the plough here has no iron on it, and is fixed to the less fide; the share is double, as if to work with a mould-board on either side; this is a great fault; only one handle. It

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Hem of wine irrigate cultivat hills, an there is

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The the pro in which did its work tolerably. The wheat in sheaves is yet in the field, but the stubbles all ploughed, a narrow flip only left, on which the wheat remained: this shews good attention to the fuccession of crops.

Prices of Provisions, &c. at Barcelona.

Bread, 4 s. and a fraction per pound, of twelve ounces.

Mutton, 221 f. per pound, of thirty-fix ounces.

Pork, 45/. per pound, of twelve ounces.

That of the poor people very little lefs; but they buy the foldiers' bread, which comes cheaper; they live very much on stock-fish, &c.

Hams fometimes 3 or 4 pefettos, or shillings, per pound, of twelve ounces. Wine, 41.

or 5 s. the bottle.

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Common day wages are 25s. French; sometimes rise to 33s.; the very lowest, 221s.

Stocking weavers earn 33/.

Cream-coloured oxen in carts, their horns fawn off to the length of fix inches, two yoked abreast, and one mule before. A pair of good oxen fell at 25l. English. Vale

from a quarter to half a mile broad.

All the corn in the country is left in the field till it is threshed, and they say it never takes hurt. A hill cut through, thirty feet deep, for the road, and walled on each fide. The fea close to us on the right all the way; and the vale I speak of is between that and the hills: fome of them are fandy, and planted with vines, which yield per journal four charges, the charge felling at 13 or 14 pefattos, and a journal for 300 Spanish livres; this is the journal, felling for 351. 8s. 9d., and producing about 2l. 14s., very inadequate to the value of the land; there are great quantities of fruit trees of all forts.

At Gremata; after which a vale for a mile and a half, or two miles, the foil fandy, and much cultivation. On the hills many vines. Some corn without fallows; it is all

cut, but not carried, and the land all ploughed .- Vines.

A wheat flubble ploughed up, and the land fown with buck-wheat, which is now up. Part of a vale highly cultivated, but a great part waste, though on the same level to the eye, but much spoiled by a torrent, for a quarter of a mile broad; it is entirely ruined, yet there is no water now, nor any channel, all being level; in fuch cases as thefe, and indeed in most others, industry, united with good capitals, would remedy the evil. Eight men working a fandy field, by way of digging with an instrument very common here, a fort of hoe, fixteen inches long, and nine broad, with a handle fo fhort, that the body is bent very much in using it. Vale two or three miles broad, and unites with an opening in the mountains. French beans often under maiz, but that crop much thinner, and nothing gotten by it. Some very fine orange-trees, near twenty feet high, large stems, and thick round umbrageous heads. All this vale before Maturò is under a very fine cultivation. They have much lucern; and an article of attention I had not before observed, was, tubs made on purpose for carrying the riddance of privies and urine to their fields.

Hemp yields ten quintals the journal. Vineyards give three, four, and five charges of wine per journal, and fell for 200 or 300 Spanish livres the journal: other lands, not irrigated, from 100 to 150 livres. For above a league vines on fand; very little other cultivation; the vale is two miles broad; fells at 150 livres Spanish the journal; on the hills, and near the fea, vines; mountains cultivated imperfectly almost to the top; but

there is much wafte. Houses scattered every where.

The cultivators are metayers, that is, they pay a portion of the crop instead of rent: the produce is divided into three parts; two for the farmer, and one for the landlord, in which case the farmer is at every expence whatever. Some vineyards are let at from 15 to 40 pefettos; I have not met any where in France with vineyards let, for they are all in the hands of the proprietors. Land in general lets from 15 livres to 35 livres.

Come to a great cultivated vale, but no water, or but little; maiz, fix inches to two feet high, in fquares, on land from which the corn has been cleared; the account we received. I suspect the highest to be previously sown in a bed, and transplanted as soon as the land was ready to receive it; millet also after corn; the soil a rich black loam.

Pass Malgra. Vale two or three miles broad; vines and cultivation. A great deal of fine maiz, called all over Catalonia Milia. I found the same name for it afterwards in Languedoc, where they speak the same language as the Catalans. Lets for 15 livres, one with another. Maiz is sown, grain by grain, after corn; the soil a granite fand. A thick woodland, all inclosed. Pomegranates make very fine thick hedges. Much wood and vines—no watering nor fallows—house scattered every where—soil sandy, but good. Very had ploughing—cream-coloured oxen. Inclosures become still thicker. Poplars planted over some fields, and vines trained to them, and from one to another: reading accounts of this husbandry in books, I had formed an idea that it must be singularly beautiful to see seltoons of vines hanging from tree to tree, but there is nothing either pleasing or striking in it, and the wine is never good for want of sun, and owing to its being dripped on by another plant, which robs it also of its nourishment; corn is sown under them, which is damaged still more. Broad stat vale, formed of the ruins of granite.

País for several miles in a vale, where the country has different seatures. It is all inclosed—much oak—a few vines, trained up trees. Soil bad. Two poor bits of meadow I noted, for they were the first I had seen bad in Spain. Many fields over-run with spontaneous rubbish. Maiz and haricots cultivated here together, as in many other quarters. Some scattered houses. Much waste on gentle hills that have vineyards on them, and would all yield that production, if planted. A sloping hill of granite fand, well cultivated. Vines, trained to oaks and poplars, with many fruit trees. The price of wheat here is 15 or 16 pesettos, for the 3½ quarterons, weighing five and a half quarters, and each quarter two nty-six pounds; this is one hundred and forty-three pounds of wheat, costing 15½ pesettos, which will be 50s. the English quarter: Barley half the

Come to a great waste, spreading over many hills, for several miles; to northern eyes a most extraordinary scene. It is a thicket of aromatic and beautiful flowering shrubs, with very little mixture of any that are common with us. Large spreading myrtles, three or four feet high, and covered with their sweet-scented flowers, jessamines, bays, and other shrubs, with which we crowd our shrubberies, are here worse nuisances than heath with us, for we saw neither sheep nor goats. View after this a large plain, bounded by mountains, and scattered every where with houses—a good deal of cultivated inclosure; but on entering find much waste in this plain. Vines now form hedges, and surround the fields. Come now to cattle, of which we have his therto seen very little; saw several small slocks of sheep, most of them entirely black, some without horns, others with, and curting round the ears. All the oxen cream-coloured, except two, with the necks and end of their tails black; all well made, and in fine order. Large breadth of corn, and some fields left apparently to grass. I suspect fallows.

The country still thickly inclosed, some pieces of grass, and a sew of meadow, which are not burned, hot as the climate is. More cattle here than we have yet seen. They keep their sheep and hogs (all black) together, and the girls, &c. who attend them spin hemp.

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Pass Goronota, and many wastes for some miles on gentle slopes; the foil good, But covered with aromatic shrubs; no cattle seen in any of them. Level vale with much culture, and much pafture: many large oaks on old double banks, also tall poplars; all inclosed, and like many parts of England, as maize and vines are not here; a thick woodland. In this part the foil is a deep, rich, brown, adhefive loam; the corn not carried, but the land ploughed and fown with French beans. They have peafe, beans, maiz, hemp, &c. without watering, and, that circumstance considered, the crops are good. The ploughs are drawn by cream-coloured oxen, guided by a line, and without a driver. Some meadows without water, with many quails. They are metayers, paying the landlord one-third of the produce, but not of phang, which is for oxen; phang is their name for clover; and this the first time we met with any information about it. It puzzled us much to discover what phang could be; but I found by accident a plant of trifolium alpestre, and, shewing it to a farmer, found, by his description, that it was clover (trifolium pratenfe), beyond all doubt. They were now ploughing a wheat stubble, in order to sow it directly with plang. Their culture of it is singular, and very good: it is mown for hay once in the spring, yielding a fine crop; the land directly ploughed and planted with monget, which is their name for fallow hoeing crops, fuch as French beans, millet, peale, &c. This monget is kept very clean, and wheat fown after it, which is off foon enough for a fecond crop of French beans. A course with them is,

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2. Wheat, and fown after with clover.

3: Clover and French beans.

4. Hemp and French beans.

5. Wheat and millet.

Vines are here planted in espaliers; small poles are laid on pegs driven into poss, which stand at six or eight feet asunder, and the vines trained to them; corn is sown between the rows; good land, yet waste join it. Many hedges are planted with the yellow-blossomed prickly acacia, which answers perfectly well for that purpose.

Within four miles of Gerona husbandry continues good. Trees have vines trained to them. Much cattle, mules, horses, sheep, and hogs, kept in the stubbles; sine cream-coloured oxen in the ploughs. The soil fine deep reddish loam. Now reaping a crop of square pease, three feet high, stout as supines, with pods like that plant; all here an inclosed woodland. Hemp six seet high, and not watered. To the left of Gerona mountain beyond mountain, branches of the Pyrenees; and very high, but seemingly a good deal of cultivation on them. Fine rich deep soil in the vale before Gerona; the same husbandry: crops of corn very sine, not carried, though all the land quite green with young millet: this extreme considence in the climate shews clearly what it must be.

A journal of the vale land fells for two hundred Spanish livres, or 231. 12s. 6d. and lets at 8 livres to 10 livres, that is, 11. 1s. English; but none of it is irrigated. They, do not tithe either lambs or other live stock.

Price of Provisions at Gerona :

Bread, 3 f. per pound of twelve ounces; and excellent. Beef, 10 f.
Mutton, 6 f.
Pork, 8 f. per pound of fixteen ounces.
Cheefe, 20 f. per pound of twelve ounces.

They have no mutton or beef, except what comes from France.

The poor live chiefly on vegetables and a little pork; their labour 20 s. a day.

Leave Gerona.—Fine maiz, planted thin, with good cabbages under it: this is a fystem which promises well, but cabbages here are only for people, and not for cattle. Three measures and a half make a journal, and a pair of oxen plough three measures a day; buy their oxen in the French mountains at a year old. Their hills are either wood or cultivation, but mixed with part rocky waste. Cross some hills which contain a great deal of waste, but see a broad valley to the right; all inclosed and well cultivated; to the eye rich; houses scattered.

At Marenia, iron 4/. or 5/. per pound of fixteen ounces. The road up a hill; twenty or thirty women giving it a winding direction, by levelling earth; on inquiry, find it is done by the communities, and that they earn nothing; hence it is by corvees. Enter a wood of cork-trees, many of them barked half way up; the texture of this tree

is remarkable, it feems formed of layers of bark, one under another.

The country now generally cultivated; the fields ploughed, but have had a crop. Some well-planted olives, ploughed under. All the corn we fee is wheat; as to barley, it was cut and threshed the first week in June, and the land ploughed and sown with something else.

From Gerona to Calderoles, three hours and a half, generally cultivated; but wastes

scattered, and mountains every where in fight. The course here is,

1. Barley, left to weeds, &c. for catttle.

2. Wheat and millet, or French beans.
3. Oats or barley, and maiz for cattle.

No fallow, or phang; French beans are called phafols.

Leaving Calderoles, the country all cultivated; many olives, and under them vines;

all well inclosed; no waste.

País Baísrà: a torrent has here destroyed a vale half a mile broad; país it by a ferry. Country now neither so rich nor so well cultivated, as on the other side of that town. Maiz planted at six feet, and two rows; French beans in the intervals; olives scattered, but the maiz very poor under them. Country more poor and stoney, yet but sew wastes. Olives and many tall pines. Wastes with pines; the sea two miles to the right, and the ridge of mountains in the front, seems to end abruptly at it. Many vineyards, and planted with olives; all under culture, and well inclosed with acacia hedges; several with ditches to them.

The vale of Figuera bounded finely by the mountains; many olives and vines, and a good deal of corn, but neither foil nor cultivation equal to what have passed; the for-

mer is more of a stone brash. Reach Figuera.

The 21st left Figuera, and breakfasted at Jonquieras. Enter the bottom of the mountains very soon; pass through many olive grounds; the trees are large, and stand about fixteen feet asunder; foil good red loam, but stoney; no watering. A quart of oil, two and an half pounds of twelve ounces, sells, retail, for a pesetto. Olives bear only every other year. Our guide says, he knows a tree in Arragon, which yields from sifty pounds to eighty pounds for a crop. In these twelve miles to Jonquieras, vines scattered all the way on the hills; some sew olives; many cork-trees, latterly: much cultivation, but a good deal of waste also. French beans in rows, and ploughed between with oxen. Soil all the way a granite sand.

The first leading feature of the minutes is the immense quantity of mountains and other wastes, which are found in every part of Catalonia. We travelled about three

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hundred and forty miles through the province, and may conclude, from what we faw, without any danger of being deceived, that not one acre in an hundred is under any fort of cultivation; in fuch gross calculation one would take care to be within the truth, and if I faid not one in one hundred and fifty, I believe I should still be on the fafe side of the affertion. When the fact is connected with the reputation which the province has of being, next to Valentia, the best cultivated, and, without exception, the most industrious in Spain, conclusions very unfavourable to the state and policy of that monarchy, must necessarily be drawn by every reader. The advantage of possessing the second city of the kingdom, a place of great trade, and containing one hundred and twenty thousand fouls, is very confiderable, and must have done much to bring the province even to its present situation. At the same time that these boundless wastes were offending the eye in every quarter, we could, in no part of Catalonia, condenn the people for want of industry; on the contrary, they seem very well to merit the character they have gained: the activity which is feen through all the towns upon the coast, and they are very numerous, and very populous, can hardly be greater in a country submitted to numerous festival days by its religion: the fishery in all those places is considerable, and attended to with an unabating spirit. The women and children make lace; and wherever the foil is good, or water conducted, cultivation is in a high state of perfection. Even in the interior country, we faw every where figns of much industry; and, amidst a poverty which hurt our feelings, we generally faw fomething to convince us, that it was not the fault of the poor people that greater exertions were not made. Those interior parts depend entirely on their agriculture; and the height to which they climb the mountains in order to find a fpot tolerably level for cultivation, shews that their minds and bodies are ready for laborious exertions, whenever there is a prospect of enjoying the reward. With fo much industry among the people to what are we to attribute the waste state of their country? The inquiries necessary for a complete investigation of such a question were not to be made by travellers: a longer residence would have been neceffary, but a few circumstances should be mentioned, which are probably connected intimately with it.

First, the poverty of the people in the interior country is striking; their towns old, ill built, dirty, and wretched; the people ill dreffed, and generally deficient in the wealth best adapted to such a country, cattle: in the higher Pyrenees this is not so much the case; they have cattle, and are in every respect in a better condition, owing to the plenty which great commons give in a country of good pasturage, and where wood is in profusion. The number of sheep we saw in general was not the twentieth part of what the waftes, bad as they are for that animal, would maintain; and that of goats fo small as to indicate the same thing strongly. This poverty not being the effect of a want of industry, must result from a government inattentive to their interests, and, probably oppreflive; and from a total want of the higher classes residing amongst them. Till we came to the rich country near Barcelona, that is to fay, in about two hundred miles, we faw nothing that had the least resemblance to a gentleman's country seat; those who have estates let in it are absent; those we heard of live at Barcelona; and the whole country is thus abandoned to the very lowest classes, and the wealth and intelligence which might contribute to its improvement, diverted into diffant and very different channels; this is a great misfortune to the people, and which will long contribute to keep things in their present state. To the same cause it is owing, that the roads, fo effential in the improvement of a country, are left in a flate which precludes the use of wheel-carriages; which, with the unnavigable state of all the rivers, except for rafters of timber grofsly put together, cuts off that fystem of reciprocal purchase and fale, that interior commerce, which is the best a country can posses. These are also evils which the residence of men of fortune is the most likely to correct, and much above the power of peasants and mountaineers. With all these disadvantages there are still circumstances which make it surprising that more land is not cultivated. Vines and olives succeed very well on the poorest and most arid soils; their growth and luxuriance in spots surrounded on every side with wastes, and in soils not better, yield a conviction, which leaves no doubt, that the adjoining lands would, if planted, give a similar produce. The profit of doing it will not be suspected, if the revenue and value of cultivated lands on comparison with the wastes be considered. Two points here force themselves on our notice; first, the want of capital for undertaking the work; and, secondly, the waste being in all probability in possession of absent landlords, who will not give sufficient encouragement to others to do what they neglect doing themselves.

Where cultivation climbs up the mountain fides, it is by finall proprietors, who purchase of the communities of the parishes the property of the land; wherever the soil is in hands that will fell just the portion which is in the power of a man to buy, great exertions are fure to be the confequence. There is no four to industry so great as the possession of a piece of land, which, in a country where the means of subsistence are contracted for want of more diffusive and more various employments, is the only comfortable dependence of a man, who wishes to be the father of a family. The parish that will fell a waste at a moderate price, will be almost fure to fee it cultivated; but the great lord, who rarely, or never, fells any of his property, unless ruin forces him to fell the whole, is equally fure of perpetuating the deferts, which are the difgrace of his country. He would let them, and perhaps upon advantageous terms; but it demands confiderable capitals, and a very enlightened state of agriculture, for speculations of that fort to take place; the only capitals, which can be found in Catalonia, for such a purpose, are the hands of men willing to work; aided, perhaps, by some little savings, which have originated from the view of wastes that are to be purchased. All that has been done, and it is much in some districts, is to be traced clearly to its origin.

That these observations are just, will be confirmed by the prices of all the necessaries of life in that province; they have nothing very cheap; every article of consumption is somewhat dearer than in France; and it is more than once noted, that all the meat they eat comes from that kingdom. Their nules are bred in France, and great imports of cattle and sheep are common. This is a direct premium upon every species of rural industry, and its not having operated greater improvements, must be owing to the causes on which I have touched.

To cultivate their wastes, to spread irrigation wherever it is possible to carry it, are the two first objects in Catalonian improvement; all others are inferior; they have, however, some which ought not to be neglected. Their wine and oil are objects of the greatest importance; for it is by these, probably, that all the lower wastes should be improved, which are not capable of irrigation; to improve the manusacture of these two articles, in such a manner as to increase the demand for them, would be one great means of accelerating the cultivation wanted; they are both bad; the wine is thick, muddy, and poisoned by the borachie; and the oil is generally rancid; both would otherwise be excellent; to remedy these defects, and force those commodities, by their merit, into commerce, would tend powerfully to enrich the province; and to enrich it in the very best method, by one, which would, at every step, accelerate its improvement. Wool is another commodity, which is of considerable value, and might be produced in an infinitely greater quantity than at present.

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their fo a coun more r and we Inequal that off verdure nefs; in of the p and pro without of a ca templat latitude their he funies o deliciou tain, wi and no profpect Great w very litt is to loo and Mac dazzled arid hea dant me of trees, landicap Hence, and mor striking

I take in the he bore it w and both VOL. The reader will not expect from a traveller, who throws his ideas on paper amidst the movements of a journey, that correct attention which leaves nothing untouched; I attempt no more than to glance at some prominent seatures, and to delineate them roughly; to draw into one point of view, the conclusions which ought to be the object of all useful travels, it would be necessary to see much more, to reside longer, and to travel with greater advantages than I posses. This little journey has been very far from affording such materials, but it has not to me been barren; it has removed many false ideas from my mind, which the writings of men, who have either been inattentive to, or ignorant of agriculture, had placed there, relative to this province; and I know better how to appreciate the praises or condemnation which are given of this or other countries, in similar climates.

There are many persons who travel for enjoying the beauty of prospect; and there . are others, who feek for a refidence better adapted than their own, to their health or their fortune; to fuch I will add a few words:-To the talte of a man that is fond of a country in a northern climate, there are few objects more pleasing to the eye, or more refreshing to the imagination, than the natural landscape scenes of a well-cultivated and well-peopled country. These have, in England, features that charm and instruct. Inequalities of country, not too abrupt; woods that present rich masses of shade; rivers that offer the contrast of their filver bosoms, gliding gently through vales of constant verdure, which are neither hurt by their rapidity, nor rendered marfly by their fluggishness; inclosures which mark thevalue and the culture of the foil; and scattered habitations of the poor clean and comfortable, mixed with the houses of farmers, in a state of ease and prosperity; and with the seats of gentlemen, who find society and liberal pleasures, without deferting the fields which give them their support, for the profusion and waste of a capital. No philosophical eye can view such a scene without pleasure, nor contemplate it without instruction. Such a scene is not to be met with in Catalonia; the latitude which spreads over their heads a clear expanse of blue, which lightens up in their heavens a blazing fun, with rays of which we have no feelings, which bids the perfumes of the east breathe over their wastes, and gives to their gardens a profusion of most delicious fruits, forbids it. Infinitely the greater part of the province is rock or mountain, without verdure, and without other wood, than ever-green oaks, olives, or pines; and no where, except in the Pyrenees, with any masses of shade that give effect to the profpect. The only verdure in the country, tolerably durable, is that of the vineyards. Great wastes are covered with shrubs, which, however beautiful when detached, have very little effect in a general prospect. To look for neat cottages, or good farm-houses, is to look in vain; and to find the landlords of the country you must go to Barcelona and Madrid. The deficiency of verdure destroys half the idea of rural beauty; the eye, dazzled with the unvarying splendor of the solar beams, and tired with wandering over arid heaths, aches for cooler and more quiet scenes, and languishes to repose on the verdant mead. When watered, where alone there could be verdure, all is a crowded fcene of trees, and corn, and hemp; of glorious fertility, but forming the good feature of a landscape only when looked down upon from an eminence immediately above it. Hence, I own, that in respect of beauty of prospect, I must prefer many parts of France, and more in England, infinitely to any thing I faw in Catalonia, a country whose most striking features are its rocks.

I take the climate to be equal to any thing that is known in the world; I was there in the hottest season of the year, and travelling twelve and fourteen hours a day, yet bore it without any such oppression as could give an idea of its ever being insupportable; and both men and women stood their field business through the day, except two hours,

which they take for repose. Supposing, however, that July and August are esteemed much too hot, still the rest of the year must, from every circumstance we heard, be delicious—they spoke with rapture of the pleasantness of the month of May; and no doubt but the winter must be a charming season, where such vegetables as green pease are gathered through every month of it, from the open fields. In regard to wholesoness for invalids, one circumstance should be considered, which may be applied equally to all watered arable lands: I should conceive, that they must of necessity, in so hot a climate, be very unwholesome; and little better than rice-grounds, which are known every where to be pestiferous. The land is kept constantly watered, it is therefore little better than an earth sponge, or mass of mud; innumerable fibres of vegetables are mixed with it; the heat, the moisture, and the rich soil form a putrid fermentation, which gives health and luxuriance to vegetables, but must fill the air with phlogistic essentials. I should apprehend far from wholesome to the human body. This is a consideration for physicians, and for those whom they send to southern climates.

Irrigation.

THE prospects down the vale of Aran beautiful; it is without fallows, fine hemp instead of them. Look down on the town of Esteredano, around which culture rises pretty high up the mountains. All the corn cut is reaped and bound in sheaves.—Walnuts. Descend into the vale.—Figs. Watered meadows. Ray-grass predominates; much common clover, white clover, tresoil, vetches, &c. A causeway for irrigation across the vale; the meadows are uncut, and have two and a half tons per acre on an average; the corn all through three quarters an acre. Pass a rich slat common; part of this vale fed by horses, hogs, mules, assess and a few oxen.

Advancing, what meadows there are are well watered; as are French beans, hemp, and a fmall quantity of lucern.

Leave Poeblar; they have lucern, but not good, the gardens are all watered; mulberries; price of filk this year 18 livres the pound. Cultivation all around among the olive-trees; but it is corn one year and fallow another. Cross the river, which is here fixty yards wide. Wheels for railing the water of it into the gardens, ten or twelve feet high; they are of a very fimple conftruction, fomething like the common waterwheels of a mill, but made very light; the fellies of the wheel are hollow in divisions. taking the water in through holes at equal distances, and as the stream turns the wheel it delivers the water out of the fame holes at the top of its revolution into a trough, which conducts it where wanted; it is cheap, fimple, and effectual. Many peachtrees scattered about the gardens, &c. Mount the hills; pass two large tracts of above one hundred acres, destroyed by the torrents. Great quantity of pudding-stones. The mountains around are of interesting and bold features. The country in general here has a great mixture of cultivation and waste; it is for some space pleasing enough to the eye, but the produce is, I believe, very low; we faw many oats, and fearcely any that will produce more than a quarter an acre. They have no meadows; and I should observe, that our mules have not found such a thing as hay; straw and barley are the food; in all those spots which would give grass, corn and legumes are fown, as more necessary and more valuable; and this, I am told, is the case over all Spain, lucern excepted.

Near Monte Schia—they have here poor crops of flat barley: of water, they know well the value, a fpring of any account being carefully conducted into a refervoir, and let out at feven in the morning and at night to water.

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Advancing,

Advancing—there is some good hemp, watered; and I see enough of the country to find that the water is all in all; where that is to be conducted, they get crops that pay well; but where no water, they have not the power or the knowledge to turn the soil, however good it may be, to a profitable account; sallow the only effort, and the success every where miserable.

Cross a fine stream with many acres under it, yet no watering; the reason I cannot

tell, unless the land is common; if so, it is easily explained.

The foil stony; the large, of the pudding class; but in the midst of this arid wretched desert, come to a spring, which rises out of the earth into a small reservoir, and is inmediately used for irrigation; maiz, hemp, cabbages, beans, and all fine; the contrast shews the astonishing effect of water, and that in this climate the soil is the least object.—

the fun and water do the whole.

Passing Paous; every thing changes the seatures; the vale, on comparison with those we have feen, is wide, and also slat, and water plentifully conducted in canals, which pass every quarter, fo as to let into the field of every proprietor; having passed above one hundred miles of dreary mountain, this vale, so great was the contrast, had the appearance of enchantment; the care and attention given to irrigation cannot be exceeded. The land is prepared for it, by levelling with a nicety as curious as for making a bowlinggreen, and this (conducting the water excepted, which is common to every one), is the only expence: this general level is divided into oblong beds, from fix to eight feet wide, by little ridges of fine mould, drawn up nicely with a rake every time the ground is fown, in order that the water may not spread over too much at once, in which case, the irrigation would be unequal; there would be too much of a current at the part where the water enters, a circumstance of no great importance in watering grass land, but which would be mischievous in arable; small trenches take the water from the carrier canals, and paffing by the ends of those beds, the farmer opens them at pleasure to distribute the water where wanted. As foon as the land is fown it is watered, and periodically till the plants are up; moderately while they are young; but every day, and fometimes twice a day, when full grown: the effect is surprising, and infinitely exceeds that of the richest manures that can be spread upon any land. The rapidity of vegetation is fo great, that there are but few crops, which demand all the fummer for coming to perfection; I believe hemp is the only one; that plant is now five to feven feet in height, and of fo thick a luxuriance, that nothing can be imagined finer. The rye stubbles are ploughed and fown with French beans, which are up and watered. After hemp wheat is the crop.

Watered maize here, feven to nine feet high. Every time we fee any irrigation, we are struck more and more with the importance of water, even on soils which are apparently mere rock, and on the most arid deferts, it gives at once the utmost luxuriance of vegetation. Vines and olives, however, stand in no need of it, but thrive admirably on the drieft soils without it: not one acre, however, in twenty, is planted with them that

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Come to more watered grounds; gardening and husbandry mixed; peaches; apples; ripe pears; pomegranates in the hedges, as large now as walnuts in the shell; onions and lettuces in great plenty. Some watered lands have been sold at 1300 livres

the journal.

Near Martorelle is a fine irrigated valley; French beans, seven feet high. Good lucern, cut three or four times a year; onions, cabbages, and lettuces; but the hemp, every where a principal crop, not great. The land all formed into the beds for watering; which I have already described.

Exceeding

Exceeding fine hemp, watered. Maiz thick, and in ear. Many fine and tall poplars by the river.

They are now (July) ploughing their stubbles for French beans. Their course is,

1. Hemp.

2. Wheat; and after wheat, French beans.

Three crops are therefore gained in two years. The products good. Very fine mulberries. A journal, which is here also about an English acre, of rich land in the vale,

not watered, fells for 500 livres: watered, for 1000 livres.

Leaving Barcelona, enter immediately an extraordinary scene of watered cultivation, and which must have given the general reputation to the province. Nothing can well be finer. The crops in perpetual fuccession—and the attention given to their culture great. Not the idea of a fallow; but the moment one crop is off, fome other immediately fown. A great deal of lucern, which is cut four, five, fix, and even feven times in a year; all broadcast, and exceedingly thick and fine, from two and a half to three feet high, when cut. It is all watered every eight days. We meet many mule loads of it going into the town, each four hundred and fifty pounds, or four quintals and a half, which fells for 4 pefettos, or near 4s. English; suppose it 4s. for five hundred pounds, it will not be difficult to calculate the produce of an acre. All I faw would yield ten tons, green, per acre, at each cutting, and much of it a great deal more; let us suppose five cuttings, or fifty tons per acre, at 16s. a ton, this is 40l. sterling per acre. It is to be remembered that the growth we faw was the third, perhaps the fourth, and that the first and second are in all probability more considerable, it will not, therefore, be thought any exaggeration to calculate on five fuch. I by no means affert that lucern yields always, or generally fo, as I fpeak only of what I fee. I have very little doubt, however, but this is the amount of that portion, which is thus cut and feld to Barcelona; possibly one-third, certainly one-fourth is to be deducted for the expence of carriage; this is the most difficult part of the calculation, for it depends on how many times the mule goes in a day, which must also depend on the readiness of sale, and other circumstances. The profit is, however, amazingly great. All the other lucern I have any where feen finks, in my idea to nothing, on comparison with the vast and luxuriant burthens given by these watered grounds. The finest crops I have known in England are drilled, but there is a fallacy to the eye in the drilled crops, in proportion to the distance of the rows; they appear thick while they are really thin, but in broadcast ones, which satisfy the eye, there is no deception; and these immense burthens, through which the scythe is with difficulty moved, produce more at one cutting than two feet drills would at three, with the advantage of the herbage being finer and fofter. But weeds in England and Catalonia are two very different things; it well deferves, however, with us, a better trial than it has yet generally received; I have viewed broadcast crops, particularly Rocque's, on a very rich garden foil, and Dr. Tanner's, on a common turnip loam, which, though not to be named with the Spanish, were certainly encouraging.

Hemp, through all these watered lands, is the predominant crop, it is seven feet high, and persectly sine; some of it is already harvested. I am forry to see that the watered part of the vale is not more than a unile broad. Indian sig, called here signa de maura, grows six or seven feet high, very branching and crooked, the arms at bottom as thick as the thigh of a common man; those and many aloes in the hedges. Every garden or farm has a small house, with a reservoir for water, which is silled in most by a water wheel, with jars around the circumference. The gardens between Barcelona and the fort, and also within the walls, are watered in the same manner; the water is let into

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ops, and kept in most beautiful order; those in and close to the town, scattered with anilberry-trees. But in the district of which I am speaking at present, among the hemp and lucern, neither vine, olive, nor mulberry. These watered lands belong generally to proprietors who live in Barcelona, and are let at 30 to 40 Spanish livres the journal.

The valley, in its widest part is three miles broad. Here it lets at 34 Spanish livres a year the journal, and sells from 600 livres to 1000 livres; each of these livres being about 54s.: (1000 Spanish livres makes 2700 French ones.) Taking the medium, or 800 livres, and the French livre at 10½d, this makes the price of a journal 90l. 2s. 6d.; and the rent of it 4l. The gross rent of the land, therefore, pays nearly 4: per cent.; but whether this is clear rent, the tenant paying all taxes, and doing the small repairs of his house, &c. or whether there are deductions on these accounts, are questions which were neither forgotten nor resolved. To shew the quick fuccession of their crops, they have corn in stocks on the borders of some of the fields, and the land ploughed and sown with millet, which is already nine inches high. Many bleaching grounds.

Advancing—the irrigated land lets from 24 to 40 Spanish livres: that not irrigated, at 15 livres. Water, therefore, here more than doubles the rent of the land; and in other places we have found the difference yet greater. The foil all the way a red and brown deep friable loam, with a sufficient adhesion for any crops. They sow French beans after hemp, and then sow wheat.

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ito ery At Ballalo, two hours from Barcelona, we meet with the first vineyards, but the hills here come down to the sea; and where they do not, the vale is not more than half a mile wide. Lycium in the hedges; some sew mulberry-trees. Oranges in the gardens, a few palm-trees, with vines around them.

A journal of watered hemp produces from 10 to 12 quintals; if not watered, the product much inferior; the price 14 to 17 Spanish livres the quintal, or 35s. English, which makes 19l. 5s. an acre. This is, however, to be understood of a very sine acre. The mountains are at half a mile distant, and partly cultivated to the top. All the way inclosed, and the men mending gaps in their hedges.

Every fcrap of flat land well watered, from wells and refervoirs; the hill covered with

Land, near Canet, well watered, fells for 500 Spanish livres the journal; vineyards for 300 livres. They give, in good years, to twelve charges. Unwatered land, 100 to 150 livres.

Enter a flat vale, half a mile broad, not watered. Hemp, very poor; maiz, feven feet high. Vineyards, under regular plantations of olives; corn cut, in thooks, and the land ploughed. A journal fells for 200 livres, and further on, when irrigated, for 1000 livres, which is an aftonishing difference.

While the mountains and waste parts of the province present an unsavourable prospect, the watered districts are, on the contrary, scenes of most exuberant fertility. To a person, from the north of Europe, there can hardly be a more striking spectacle than the effect of watering in these southern climates; it converts an arid stony waste, which would yield nothing but vines and olives, and on which every fort of grain would hardly return the feed, at once into fields, pregnant with the richest harvests; on such foils, it gives almost the whole value of the land; and on the richest it raises it, at the least, double; and in some instances, sive times. It enables the cultivator to have a succession of crops, more important than any thing we know in the north. The reaping one crop is but the signal for immediately putting in another; in doing which, they exert them-

felves with the utmost activity; ploughing universally as soon as the corn is cut; and are by this means enabled to have constantly two crops a year. The extreme fertility of these lands has, however, led many travellers into great or ignorant exaggerations; they have afferted that the land yields many crops at the fame time, one under another, which & both true and false. It is fact, that corn, wine, oil, and filk, are produced by the same field, in some few instances; but it is not from hence to be concluded, that the goodnefs of the land, or the importance of irrigation is at all flewn by that circumstance. The fact is, that it is impossible to raise one crop under another, without losing in one nearly as much as you gain in the other; the olive, being a large tree, cultivation may be carried on under it, but the crop gained is poor, and shews that exactly in proportion to the flude is the injury fullained by the produce which is fluded. If the trees are thick, the corn is hardly worth reaping; it is the fame in other cases, and I was well convinced, from viewing their grounds with this defign, that the foil can carry, profitably, but one crop at a time; feveral may be crowded on it, but nothing is gained; with grafs under trees, this is not the case so much in a hot climate; but even grass is damaged, and it is not the question at present, as they have none. A country to be supported, and in a hot climate, without meadows or pastures, sounds very strange to English ears, and it is among the curious circumstances of this part, and I am told of the rest of Spain. If they applied to grafs the land that is proper for it, they could not possibly have bread to eat; thraw here is given inflead of hay, and entirely supplies its place, and the oxen and mules, which we faw, did not shew in the least, by their looks, any deficiency in nourishment. Lucern is not at all common through the interior part of the province, and where they cultivate it, it is used green. Maiz is sometimes sown merely for its herbage, as it might be, I believe, profitably in England, late in the spring, to avoid our frosts; it is one of the most nourishing plants in the world.

The consequence of water being so apparent in the province, I could not but attend particularly to their exertions in conducting it, and I concluded that not one acre in twenty, perhaps in forty, is watered, that might be. In the flat vales where canals of irrigation are made, at a finall expence, a very good, though by no means a complete use is made of them; but on the declivities of the mountains, it is necessary to erect a mound of folid masonry across the river, and to cut the canal partly out of rocks, and to support it by walls of stone, as I have seen in France; and having thus diverted a large portion of the water of a river, to carry it on its level, along the fide of the mountain as far as it will go; fuch exertions demand a much greater capital than is to be found upon the lands of Catalonia: it could be done only by a great lord, who knew the importance of fuch undertakings, who refided on his estate, and whose income was spent in something elfe than the tafle and pleafures of a capital. But leaving fuch exertions to individuals. who either have not the money or not the will to employ it, is to perpetuate wastes. It is the King only who can make those efforts; a monarch who should be determined to improve his kingdom would prefently find the means of doing it. The importance of water is fo well known, that if a canal is made to conduct it, the proprietors or farmers of the lands below would readily and fpeedily make use of it, paying proportionably for the quantity they took; this is the fystem in Lombardy, and the effect is great. It would be the same in Catalonia, but the capital for the great work of the canal, must probably be supplied by the king, if not the whole, at least a considerable portion. Such money should be lent to undertakers at a moderate interest. Exertions of such a nature, with a proper general attention given to these objects, would make them fashionable among the great lords of the kingdom, and fertile provinces would foon be created out of barren and defolate wastes. Arbitrary power has been exerted for ages in efforts of barbarity.

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For the lat fize of ignorance, and tyranny; it is time to see it employed in works that have the good of mankind for their aim. A beginning, and a very good one, is made in the construction of some great roads, on a scale of true magnificence, which is never exhibited with such effect as in works of public utility; and whenever the importance of cultivation is well underslood in Spain, and the right means of advancing it clearly analyzed, irrigation will then receive an attention that has not hitherto been given. Such is the necessity of water, for various productions in this climate, that rivers ought to be no more than infinitely multiplied channels, and collected in one stream only, as a reservoir for fresh and repeated deviations.

Sheep.

On the northern ridge of the Pyrenees, bearing to the west of Bagnere de Luchon, are the pastures of the Spanish slocks. The ridge is not, however, the whole; there are two other mountains in a different fituation, and the sheep travel from one to another as the pasturage is short or plentiful. I examined the foil of these mountain pastures, and found it in general flony; what in the west of England would be called a flone brash, with some mixture of loam, and in a few places a little peaty. The plants are many of them untouched by the sheep: many ferns, narcissus, violets, &c.; but burnet (poterium fanguiforba) and the narrow-leaved plantain (plantago lanceolata) were eaten, as may be supposed, close. I looked for trefoils, but found scarcely any: it was very apparent, that foil and peculiarity of herbage had little to do in rendering these heights proper for sheep. In the northern parts of Europe, the tops of mountains half the height of these, for we were above snow in July, are bogs; all are so which I have feen in our islands, or at least, the proportion of dry land is very trisling to that which is extremely wet; here they are in general very dry; now a great range of dry land, let the plants be what they may, will in every country fuit sheep. The slock is brought every night to one fpot, which is fituated at the end of a valley on a river, and near the port or pattage of Picada: it is a level fpot sheltered from all winds. The soil is eight or nine inches deep of old dung; not at all inclosed, and, from the freedom from wood all around it, feems to be chosen partly for fafety against wolves and bears. Near it is a very large ftone, or rather rock, fallen from the mountain. This the shepherds have taken for a fhelter, and have built a hut against it; their beds are sheep-skins, and their doors so small that they crawl in. I faw no place for fire, but they have it, fince they drefs here the flesh of their sheep; and in the night sometimes keep off the bears by whirling firebrands: four of them belonging to the flock mentioned above, lie here. Viewed the sheep very carefully, and by means of our guide and interpreter, made some inquiries of the shepherds, which they answered readily, and very civilly.

A Spaniard, at Venasque, a city in the Pyrences, gives 600 livres, French, (the livre is 10½d. English,) a year, for the pasturage of this slock of two thousand sheep: in the winter he sends them into the lower parts of Catalonia, a journey of twelve or thirteen days; and when the snow is melted enough in the spring they are conducted back again. They are the whole year kept in motion, and moving from spot to spot, which is owing to the great range they every where have of pasture.— They are always in the open air, never housed, or under cover, and never taste of any food but what they can

find on the hills.

Four shepherds, and from four to fix large Spanish dogs, have the care of this flock; the latter are in France called of the Pyrenecs breed; they are black and white, of the fize of a large wolf; a large head and neck; armed with collars stuck with iron spikes;

no wolf can fland against them; but bears are more potent adversaries; if a bear can reach a tree he is fafe, he rifes on his hind legs, with his back to the tree, and fets the dogs at defiance. In the night the shepherds rely entirely on their dogs; but on hearing them bark, are ready with fire-arms, as the dogs rarely bark if a bear is not at hand. I was furprifed to find that they are fed only with bread and milk. The head shepherd is paid 120 livres a year wages, and bread; the others 80 livres and bread. But they are allowed to keep goats, of which they have many, which they milk every day; their food is milk and bread, except the flesh of such sheep or lambs as accidents give them. The head shepherd keeps on the mountain top, or an elevated spot, from whence he can the better fee around, while the flock traverses the declivities. In doing this, the sheep are exposed to great danger in places that are stony; for by walking among the rocks, and especially the goats, they move the ttones, which, rolling down the hills, acquire an accelerated force enough to knock a man down, and sheep are often killed by them. Examine the sheep attentively. They are in general polled, but some have horns; which in the rams turn backwards behind the ears, and project half a circle forward; the ewes horns turn also behind the ears, but do not project; the legs white or reddish; speckled faces, fome white, fome reddiff; they would weigh fat, I reckon, on an average, from fifteen pounds to eighteen pounds a quarter. Some tails left long. A few black sheep among them; fome with a very little tuft of wool on their foreheads. On the whole, they refemble those on the South Downs; their legs are as fliort as those of that breed; a point which merits observation, as they travel so much and so well. Their shape is very good; round ribs, and flat strait backs; and would with us be reckoned handsome sheep; all in good order and flesh. In order to be still better acquainted with them, I defired one of the shepherds to catch a ram for me to feel, and examine the wool, which I found very thick and good of the carding fort, as may be supposed. I took a specimen of it, and also of a hoggit, or lamb of last year. In regard to the mellow softness under the skin, which is a strong indication of a good breed, with a disposition to fatten, he had it in a much superior degree to many of our English breeds, to the full as much so as the South Downs, which are, for that point, the best short-woolled breed which I know in England; the fleece was on his back, and weighed, as I gueffed, about eight pounds English; but the average, they say, of the flock, is from four pounds to five pounds, as I calculated by reducing the Catalonian pound of twelve ounces, to ours of fixteen ounces; and is all fold to the French at 30 f. per pound French. This ram had the wool of the back part of the neck tied close, and the upper tuft tied a second knot, by way of ornament; nor do they ever shear this part of the sleece for that reason; we faw feveral in the flock with this species of decoration. They faid that this ram would fell in Catalonia for 20 livres. A circumstance which cannot be too much commended and deferves univerfal imitation, is the extreme docility they accustom them to; when I defired the shepherd to catch one of his rams, I supposed he would do it with his crook, or probably not be able to do it at all; but he walked into the flock, and fingling out a ram and a goat, bid them follow him, which they did immediately, and he talked to them while they were obeying him, holding out his hand as if to give them fomething, By this method he brought me the ram which I caught and held without difficulty.

The mountain pattures belonging to the Spaniards, not used by themselves, they let to the owners of large flocks who bring them from the lower part of Catalonia, as with the French mountains; these slocks rife to four thousand sheep; the rent in general being from 5/2 to 7/2 a head, for the fummer food. Every inhabitant possesses cattle, which he keeps in the common mountains in what quantity he pleafes; but others, who

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Silk, 2 Hemp, Flax, Wool, Rice, Oil, 1d Wine, Dry rai Figs, 6 Dates a

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do not belong to the parish, pay 55 to 75. a head for the sheep, and 105 for a cow; which disproportion they explain by faying, that sheep must have a much greater range.

They have good sheep in various parts of Catalonia, but all are fent to Saragosa or Barcelona.

The mountains and wastes in some parts have no sheep; only goats.

Cross great wastes, which in other countries would be sheep-walks; but none here; for five fixths of the spontaneous growth are aromatic plants.

See two fmall flocks of fheep, exactly like those in the Pyrenees, described the first day of this journey.

A fmall flock of sheep, that give five pounds or fix pounds of wool each.

Several small sheep-folds.—Such notes as these shew how few they are, on com-

parison of what they ought to be.

In travelling over the lower mountains, after quitting the higher Pyrenees*, the deficiency of sheep Aruck me very much; the climate is too dry to think of a luxuriant vegetation of grass; but if the rosemary, lavender, and other aromatic useless plants were destroyed, and the land, by cultivation, properly adapted, was to be laid down to such plants as would feed sheep, sine pastures might not be gained, but much valuable sheep-walk would be created, and the quantity of wool increased an hundred fold. Such a system would unite well with olives, which might be thinly scattered over such improvements. To import immense quantities of sheep from France, and to take no steps to increase them at home, is a blind conduct, especially when it is considered, that in a proper system, they cannot be increased without being at the same time, the means of improving fresh land.

Produce of the Kingdom of Valencia in 1787.

			English Money				
		Reals de Vellon.		£.	\$.	d.	
Silk, 2,000,000 lb. at 60 reals, -	•	120,000,000	-	2,000,000	0	0	
Hemp, 25,000 quintals, at 160 reals,	-	4,000,000	~	66, 666	13	4	
Flax, 30,000 quintals, at 200 reals,	-	6,000,000	-	100,000	0	0	
Wool, 23,000 quintals, at 160 reals,	-	3,680,000	-	61,333	6	8	
Rice, 140,000 cargas, at 150 reals,	-	21,000,000	-	350,000	0	0	
Oil, 10,000 quintals, at 180 reals,	•	. 1,800,000	-	30,000	0	0	
Wine, 3,000,000 arrobas, -	-	84,000,000	-	1,400,000	0	0	
Dry raisins, 60,000 quintals, at 40 reals,	-	2,400,000	-	40,000	0	0	
Figs, 60,000 quintals, at 32 reals,	•	1,920,000	-	32,000	0	0	
Dates and palms,	-	1,200,000	-	20,000	0	0	
			-			_	
			£	4,100,000	0	0	

^{*} There is no line of boundary to be fixed, with any precision, to the Pyrenees: I am inclined to think that all the mountains we faw, Montferrat perhaps excepted, are branches of that stupendous chain, uniting in some direction. The whole mountainous part of the province, that is, eighteen-twentieths of it, is properly the Pyrenees.

Prices at Madrid, 1788.

1 rites at Maaria, 1700.			
		Eng. N	Ioney.
Poof a see as asserted por lb	Average.		· d
Beef, 14 to 15 quartes per lb.	15 quartos.	- 0	J+
Veal, 24 to 30 quartes per lb.	27	- 0	•
Mutton, 15 quartos per lb.	15	- 0	
Fresh pork, 15, 17, to 20 quartes per lb.	17		4 4
Salted pork, 17 to 20 quartes per lb.	17	- 0	
-Hiam, 18 to 22 quartes per lb	. 50	- 0	5
Tallow Candles, 15 quartos per lb.	15	- c	33
Soap, 16 quartos per lb.	16	- 0	4
Butter (Mantica de Flandes), 8 reals per lb.	8 reals.	- 2	8
Goat's milk, 6 to 7 quartos per el quarto, -	7 quartos.	- c	13
Mancha cheefe, 18 quartos per lb.	18	- c	
Turkey, 12, 20, to 45 reals a piece, -	25 reals.	- 8	4
Fowl, 8, 11, to 14 reals a piece, -	11	- 3	
Hare, 5 to 9 reals a piece,	7 .	- 2	
Rabbit, 5 to 8 reals a piece,	6	- 2	
Partridge, 4 to 8 reals a piece,	6	- 2	
Pigeons, 5 to 6 reals a piece,	5	- 1	_
Eggs, 21 to 42 quartos a dozen	31 quartos.	- c	-
Potatoes, 4 to 6 quartos per lb	5 1	- 0	, -
Garvanzos (large pease), 10 to 12 quartos per lb.	11	- 0	1
Wheat flour, 13 quartos per lb	13	- 0	
Rice, 11 to 12 quartos per lb.	11	- 0	
Brandy, 2 reals per el quarto,	Print,	- 0	
Common wine, 26 to 28 r. the arroba (about 18 bottles), 27	reals.	. 9	
Valdefunas wine, 36 reals per el quarto,		- 12	
Charcoal, 4 reals and 5 quartes the arroba, -			
Wood, 3 reals the arroba,	_	- 1	3.4
Common bread, 6 quartos per lb.			_
Pan candial 6 quartos per lb		- 0	
Common oil, 15 quartes per lb.		• 0	- 2
Valencia oil, 4 reals per lb		- ′ (J-
French oil, 7 reals per lb.	_	- 1	-
	*	- 2	
Coffee, 34 quartos per lb.		- 0	8 4
Sugar, 30 to 38 reals per lb.	34	- 11	-
Chocolate, 6, 8, to 10 reals per lb.	8	- 2	
Tea, 11 quartos per oz,	-	- 0	
Hair-powder, reals per lb	-	- (8

MAJORCA.

SOME circumstances relating to this island, which I procured from good authority at Barcelona, and at Bayonne, from Spaniards who had resided many years in it, I think too interesting to be omitted, as they may serve, if for no other purpose, at least to point the

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the inquiries of some future traveller, who shall have an opportunity of visiting that island.

Climate.—The most delicious that has been experienced by various persons well acquainted with France, Italy, Spain and Portugal; and refulting in a good measure from the variety of the face of the country, which rifes from some beautiful plains to gentle flopes, which, after many undulations of furface, finish in the mountains. In the greateft heats of July and August, the hills preserve the temperature almost vernal: nor are the heats ever fuffocating in any part. The winters, except on the highest parts of the mountains, are mild and pleafant, as may be gathered from the circumstances of vegetation, almonds bloffom in December, are in full bloom in January; and many wild flowers are in all their beauty quite through the year. Spinnage, green peafe, beans, lettuce, endive, cellery, &c. are in perfection the year round. In the depth of winter, ice is feen to the thickness of one-tenth of an inch, but melts before the day is much advanced. No fharp cutting winds are ever felt, either in winter or in fpring; and a perfon who refided there fixteen years, never faw a fog. The houses have no chimnies; but when artificial warmth is wanted, almond-shells are burnt in brasieres. This extremely agreeable temperature of the climate was confirmed to me by General Murray and his Lady, who refided there many years; and the former mentioned a circumstance, which shews how erroneous it would be to judge of any climate by the latitude; Leghorn is nearly in the same parallel, but the severest cold he ever felt, in March, was at that place, where, in washing, the water became ice before a towel could be well dipped in it.

Culture and Products.—The hills are formed in terraces, and planted and cultivated with great attention. Olives are planted, and under them wheat fown; in the flats, many almonds and mulberries. Oranges and lemons are in such quantities, that they export many to France. They are in great profusion, and the most beautiful to be imagined. The mountains of Soleya are famous for peaches, and all forts of fruit. Hedges of pomegranates are attended with medlar and quince trees, alternately on one side, and on the other mulberries; but the best fence is the prickly pear, the fruit of which is ripe in July, which is eaten, both leaf and fruit, by cattle, and are supported on it in fine order, when other things fail in the heat. Musk and water melons are in great perfection.

Sugar-canes do well; but no fuch thing as rice, as neither fwamp, marsh, nor bog. Irrigation is well understood and much practifed.

A common course of crops,

1. Wheat.

2. Barley.

3. Beans.

4. Peafe.

Capers (which are a weed) come up in the wheat stubbles, which give a crop; then the stubble and caper-bushes are burnt, and the barley and legumes succeed, and after those artichokes.

They plough with a pair of oxen or mules.

The proprietors in general keep the land in their own hands.

Living.

This island, which by every account might be made a paradife, is one of the cheapest spots in Europe to live in; upon an income of 150l. a year sterling, men of the better

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fort live comfortably and bring up a family. Every vegetable production for the table with all kinds of fruits, are not only in un common profusion but excellent of their forts. Poultry no where better; turkies are kept in great droves, and driven to feed on berries as regularly as sheep to pasture; they are fattened on myrtle-berries, and are not only of a delicious flavour but a great fize, even to thirty six pounds weight. Mutton is excellent; some sheep are so small from the island of Yuvica, that three legs are sometimes ferved up in one dish.

All these circumstances united, seem to point out this island as an excellent winter residence for those who can no longer resort to Nice or Hyeres, and is probably a better

climate than either of them.

Produce of the Island of Majorca in 1786:

	Froat	uce of the	giana of	wiajorea in 170				
				,		English m	ioney	
				Pefos.		£.	ı.	d.
Wheat,	475,336 fanega	2	•	1,521,075		342,241	17	6
Barley,	152,880		•	300,664-	_	67,649	8	0
Oats,	122,068		-	134,274		30,211	13	0
Pulse,	102,037		-	244,888		5 5, 099	16	0
Almonds,	60,500		•	129,066		29,0,39	17	0
Oil,	193,030 arroba	's	-	476,140		107 131	10	0
Wine,	1,665,650		-	322,829		72,636	10	6
Hemp,	24,446		-	83,185		18,715	10	0
Flax,	5,038	•	-	15,367		3,457	I 1	6
Carobs,	500,300		•	83 ,3 33	_	18,749	18	6
Figs,	175,000			62,000		13,950	0	ō
Cheese,	-131		-	25,000	_	56,250	0	o
Wool, 47	2.705 lb		-	61,341		13,801	-	6
Steam of w	heat and barley,		•	125,045		28,135	2	6
Silk, 5,347				24,061		5,413		Ğ
Sweet oran				45,000		10,125	0	o
Fruits of a		_		17 ,000		33,250	0	0
Pimienta,	11 10110,	-	_	13,000	_	2 925		
	· _	•	_	4,500		1,012	0	0
Capers,	sheep by birth,	_		126 942				0
Increase of	meep by birm,	<i>p</i> .	-			28,561	19	0
of	goats,	_	•	31,430	_	7,071	15	0
	black cattle,	•	•	25,704		5,783	8	0
of		1 - 0 -	•	240,000		5+000	0	0
	horses, mules, an		1.:.	74,100		16,672	10	0
Many artic	les are not men	tioned in	tnis					
account,	and are reckoned	to amoun	t (the	0 6				
fpecified	produce comprise	ed) to		4,983.326	_	1,121,248	7	0
The extent	of Majorca is 12	3 ; iquare	leagues,	, whereof twen	ty			
to one d	egree.							
Majorca is	reckoned to be the	TT part	of the co	ontinent of Spa	in;	Majorca		
and the	whole of Spain do	es not ame	ount to .	250,000,000 /1	clos	316,011	3	0
per annum, according to the opinion of many well-informed span.								
Spaniard					J	55,933,983	17	0
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AN ACCOUNT

OF

THE ATTEMPTS THAT HAVE BEEN MADE

TO ATTAIN THE SUMMIT OF MONT BLANC.

Written in the Year 1786.
[From SAUSSURE *.]

HEN I was writing the preliminary discourse and the first part of this work, I looked upon the summit of Mont-blanc as absolutely unattainable. In my first excursions to Chamouni in 1760 and 1761, I had it published in all the parishes of the valley, that I would give a considerable recompence to whoever should find a practicable route. I had even promised to those who made unsuccessful trials to pay them for their labour: these promises were of no avail. Pierre Simon made one attempt at the Tacul side, and another at the side of the glacier of Buissons, but returned without any hope of success.

However fifteen years after, that is to fay in 1775, four of the Chamouni guides attempted to gain it by the mountain de la Côte, this mountain which forms a ridge pretty near parallel to the glacier of Buiffons, approaches to the ices and snows which

continue without interruption to the top of Mont-blanc.

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There is some difficulty to overcome before entering on these ices, and to cross the first crevices; but these first obstacles once surmounted, there remains no more than the length of the way, and the difficulty of accomplishing in one day the ascent and descent. I say in one day, because the people of the country think it not safe to run the

risk of passing the night on these snows.

These four travellers got very well over the first obstacles; they then endeavoured to follow a great valley of snow, which appeared to condust them immediately to the summit of the mountain. All appeared to promise them the most happy success; they had the finest weather imaginable, they neither met with openings too large, nor precipices too rapid: but the reverberation of the sun on the snow, and the stagnation of the air in this valley made them undergo as they said a suffocating heat, and gave them at the same time such a distast for the provisions with which they were provided, that overcome by inanition and weariness, they had the grief to be forced to return the same way they went, without having met any visible infurmountable obstacle. It however appears that the efforts they had made were very great, for their strength was very much tried in this excursion, and from it they became more or less is.

This disappointment however did not prevent three other of Chamouni guides from undertaking the same task, and by the same road in 1783. They passed the night at the top of the mountain de la Côte, crossed the glacier, and followed the same valley of snow. They had already got to a good height, and were proceeding courageously; when one of the boldest and most vigorous of the three was suddenly seized with an infurmountable propensity to sleep: he desired the other two to leave him and go on without, but they could not think of abandoning him, and leaving him to sleep on the snow; persuaded as they were that the heat of the sun would kill him: they therefore

^{*} Voyage dans les Alpes, ii. 550.

" valie.

renounced the undertaking and returned back together to Chamouni. For this propenfity to fleep, produced by the rarity of the air, left him as foon as they had descended low enough to find themselves in a thicker atmosphere.

It is very likely that even if this overpowering propenfity to fleep had not ftopped these brave fellows, they would not have been able to have gained the summit of the mountain, for in effect though they had attained a great height, they had still a great way to go, the heat incommoded them excessively, a thing surprising at this height; they had no appetite; the wine and provisions that they took with them had no charms for them. One of them told me seriously that it was useless to carry any provisions in this excursion; and that if he should make another trial by the same way, he would only take a parasol and a smelling bottle. When I figured to myself this tall and vigorous mountaineer graphing with the snow, and holding in one hand a little parasol, and in the other a bottle of caus same pareille, this image had something in it for ridiculous and strange, that nothing could be more convincing to any mind than the idea he had formed to himself of the difficulty of this undertaking; and of consequence of its absolute impossibility for people who have neither the head or the joints of a good guide of Chamouni.

Yet M. Bourrit would again make another trial at the end of the feafon, he likewife flept at the mountain de la Côte, but an unexpected florm coming on obliged him to turn back just at the entrance of the glacier.

For my part, after the informations which I had received from those who had made the attempt at this fide, I looked on the success as absolutely impossible, and this was the opinion of all the intelligent people of Chamouni.

M. Bourrit, who interested himself more than I did in the conquest of Mont Blanc, thought he ought to try it by some other side; he gained from all parts all the intelligence he could; at length he learned that two hunters in following some chamois had got on some ridges of rocks to so very great a height, that from the place to which they were come, to the summit of Mont Blanc, there remained no more than sour or sive hundred toiks to get up by the declivities of snow which were not very rapid, and in so open an air that there was nothing to fear from that fort of suffocation, that had been sound in the valley of stow which ends at the mountain de la Côte.

Charmed with this discovery, M. Bourrit ran to La Grue, the village where these hunters lived, and immediately engaged them to make another trial with him. He left the village the same evening, and arrived with them at break of day at the foot of some steep rocks which it was necessary to pass. The morning air was of an extraordinary keenness; M. Bourrit scized by the cold and overpowered by satigue could not follow his guides. Two of those, after having left him with the third at the foot of the rocks mounted alone, not only to the top of the same rocks but very far on the snow: they said that they had reached to the foot of the highest summit of Mont Blanc, from which they were separated only by a ravine of ice, in which, if they had had more time and help they could have made stairs by which they might easily have got to the top.

As foon as this trial had permitted me to believe in the possibility of fuccess, I refolved to make the attempt as foon as the feason would permit; I charged two men
of the neighbourhood † to watch near the mountain and the melting of the snows would render it possible. Using ply they accumulated during
the rigorous winters of 1784 and 1785, and those which have frequently fallen during
the cold and rainy summer, which has succeeded this winter have retarded my departure till the middle of September.

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I always prefer making these excursions with my guides only; but M. Bourrit, who was the first to make known this route, having desired that we should make this attempt together, I consented with pleasure. We took with us his son, a young man of twenty-one years of age, whose talents promise a most happy success, and whom the love of botany, and the grand objects of contemplation that our Alps present, has often conducted on the traces of his father.

I had reckoned on fleeping as high as possible under coverings in form of tents: but M. Bourrit had conceived the happy idea of fending two days before three men of Chamouni to construct for us under shelter of a rock, near the base of the Aiguille du Gouté, a sort of hut or hovel of dry stones; an excellent precaution which would secure us from the danger of a storm, if we should have the missortune to meet one.

These dispositions made, we agreed to meet on Monday the twelfth of September at the village of Bionassay, situated about a league to the north-east above that of Bionnay, M. Bourrit and his son came there from the Priory of Chamouni, which is sour leagues to the north-east of this village. I lest Geneva the eleventh of September, and came in a carriage to Sallenche; and the next morning I went on horseback to Bionassy pulsars by St. Gervais and by Bionnay.

The village of Bionassay is situated in a very uneven valley, open to the south-east, and shut at all other sides. It is commanded by the glacier of the same name, an separated, at the north-east, from the valley of Chamouni by a small chain of slate and alcareous

mountains.

I observed between Bionnay and Bionassay some remarkable stones, but I mean to give the lithological account of this little journey in another place; those details sould

too much damp the interest of which it is susceptible.

I arrived the first at Bionassay with Pierre Balme, who had come as far as Salle neet me; we should have slept at this village, but as there was no inn there, had asked at Bionnay which of the peasants of the place was in the best situation to entertain us, they directed me to the Conseiller de la Commune named Batandier. This haest peasant received me with great cordiality; and M. Bourrit coming in the evening Chamouni, our host gave each of us a good little room, with a bed filled with some stream on which I passed a very good night.

The next morning' I felt fome uneafiness for the weather, the barometer not have generated during the night more than the fixteenth of a line; which is much unarrhyat it rises to from evening to morning, when fine weather is perfectly settled. My offervation, compared with that which M. Pictet made at Geneva, gives to the situation of Batandier's house four hundred and eighty-eight toises above our lake, and of conse-

quence fix hundred and eighty above the fea.

We had then still to mount one thousand eight hundred toises before we could get to the summit of Mont Blanc, but we had two days to perform it in: as the first day we were only to go as far as our hut. As its situation had been lest to the choice of its constructers, we were ignorant of its height, but wished to find it placed as high as

possible.

At day-break one of the Chamouni guides, who had worked at the confiruction of the hut, came to inform us it was almost finished, but that it would be necessary to take another piece of fir, to make the roof more solid. We ordered a man of Bionassay to earry one, and two others loaded themselves with straw, and two more with wood for firing. Others carried provisions, furs, and my physical instruments, and thus we formed a caravan of sixteen or seventeen people.

I had hoped that we might have gone near two leagues on our mules, but it was with difficulty we could make use of them even for one. M. Bourrit the father even wished

to go the whole way a foot.

We immediately mounted an eafy flope by the fide of a profound ravine, in which runs the torrent which issues from the glacier of Bionassay. Then a rapid ascent conducted us to a little plain below the glacier: we traversed this plain in its whole length: we then coasted the glacier for some moments, and we finished by leaving it and taking a strait north-east direction by a very rough but not too fatiguing slope, and without any danger.

All the upper part of this slope is called Pierre-ronde, without the origin of this name being known; for there is neither rock nor stone there remarkable for its roundness. This slope is free from wood, bushes; and almost all vegetation is covered only with fragments, and presents a most savage aspect. At the left are seen bare rocks which conceal the valley of Chamouni, and to the right, the rocks and ices of the base of Mont Blanc; for as for its head and shoulders, they are concealed by its low and projecting bases.

Although this afcent was long enough, I was always afraid to fee the end of it and come to the hut, because I wished to get as high as possible the first day, and to make the most of the second, which would be the most interesting, but at the same time the most painful: thus, always counting for nothing the present fatigue, we ascended, almost without perceiving it, the seven hundred and forty-one toises which our but lay above the village: we got to it about half an hour after one, although we had not set out till eight, and divers little accidents had made us lose more than half an hour of the time.

The fituation of this hut was the happiest that could have been chosen in so wild a fituation. It was joined to a rock in the bottom of an angle, sheltered from the northeast and north-west at about fifteen or twenty paces, above a little glacier covered with snow, from which issued a clear and fresh stream which answered every purpose wanting

to our caravan.

Opposite the hut was the Aiguille du Gouté, by which we were to attack Mont Blanc. Two of our guides , who had scaled the Aiguille, shewed us the ridge which we should climb. They even offered to take advantage of what remained of the day to reconnoitre the mountain, chuse the easiest route and mark steps in the hard snow: we accepted the offer with thanks. To the right of these rocks we admired a summit of snow called la Rogne, which appeared to us of a prodigious height, we were however told we should see it under our feet, from the Dome of l'Aiguille. All the lower part of this high summit was covered with extremely rugged glaciers, which emptied themselves into that of Bionassay. At every moment vast malles of ice detached themselves from this glacier, which we could see fall, and precipitate themselves with a horrid crash and dissolve in clouds of dust, that the air raised by the fall of ice rose up like clouds to a surprising height.

Behind our hut was a fmall chain of rocks about forty-feet above it. I made halle to get up it, my travelling companions quickly followed me, and there we enjoyed one

of the finest views I ever met on the Alps.

These rocks, whose height is one thousand two hundred and twenty-nine toises above the lake, and one thousand five hundred and twenty-two above the sea, are at the northwest side quite precipitous. There is seen under the seet the southern extremity of the valley of Chamouni, above which we were about nine hundred toises. The rest of this charming valley is shortened in the view, and the high mountains which border on it

* Gervais and Coutet.

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appear to form a circus round it. The high points feen in profile fubdivide themselves in a forest of pyramids which closes the bounds of this circus, and feem destined to defend the entrance of this charming retreat, and preserve its peace and innocence. From that side, the view extends to the Gemmi, which is known by its double summit which has given it that name. But I shall not undertake to give a detail of the immense heap of mountains which is discovered from this summit, let it suffice to say that it presents the most ravishing prospect to those who delight in such beautics.

I chose this summit for my observatory, I suspended my hygrometer and my thermometer in the air to a stick which kept them in the shade, whilst I standing on the most prejecting point of the rock measured with my electrometer the degree of ærial electricity. It is true that the cold north wind which then blew did not permit me to remain long in that fituation, it was necessary to find out a milder temperature under cover of the rocks which surrounded our but; but as soon as I had warmed myself, I returned again to enjoy the prospect and continue my observations. I will give an account of them in a

chapter apart.

I had the chagrin of not being able to make an experiment from which I had promifed myfelf much pleafure: that of the necessary heat to boil water at different heights. The physicians know the profound refearches of M. De Luc on this subject, their precision and their exactitude leave no doubt of the results; nevertheless M. le Chevalier

Shuckburgh thinks he has found out another rule.

It was interesting to repeat these experiments, particularly at such heights as no naturalift had ever attempted. For eighteen months I had been afking of M. Paul, a thermometer armed with a micrometer and adapted to a portative kettle: but the want of proper tubes, and the multiplied occupations of this excellent artifl, had fo retarded the execution of this inflrument that it was not ready till the day before our departure. However it appeared to be in very good order, I tried it the fame night and again with fuccess at Bionaffay; and I hoped it will fucceed equally well every where elfe, but at the height of the hut the lamp deflined to make the water boil would not burn; it was a lamp confiructed on the principles of those that M. Argand had invented, but made in a hurry, and from a bad model: the tinder which ferved it as a wick burned at first very well: but prefently this tinder turned into coal and afterwards went out, an accident which did not happen in a thicker air. Unhappily our apparatus was difpofed in fuch a manner that it was impossible to make our water boil on a wood fire, the only one here in our power. After then having ufelefully tried this apparatus a thoufand different ways, I was obliged to give up the experiment, or put it off till another opportunity.

But the beauty of the evening, and the magnificence of the spectacle, which the fetting sun preferted from my observatory, consoled me for this disappointment. The evening vapour which, like a light gaz, tempered the sun's brightness, and half concealed the immense extent we had under our feet, formed the finest purple belt, which incircled all the western part of the horizon, whillt to the east the snows at the base of Mont Blane coloured by this light presented the finest and most magnificent spectacle. In proportion as the vapour descended and became more dense, this belt became narrower, and of a deeper colour; and appeared at last of a blood red, at the faine instant small clouds which rove above this chain, darted a light of such brightness, that they resembled sharing stars or meteors. When the night was quite fet in 1 returned there; the sky was then perfectly clear, and without clouds, the vapours were only observable at the bottom of the valleys: the stars shining but without any tinkling, spread over the tops of the mountains an extreme seeble and pale light, but sufficient however to votative.

diftinguish the masses and the distances. The repose and prosound silence which reigned in this vast extent, still heightened by the imagination, inspired me with a fort of terror; it appeared to me as if I had outlived the universe, and that I saw its corpse stretched at my seet. Sorrowful as ideas of this nature are, they have a fort of charm which can hardly be resisted. I turned my looks oftener towards this obscure solitude than towards Mont Blanc, whose shining and phosphorical snows still gave the idea of movement and life; but the keenness of the air on this isolated point presently forced me to retire to the hut.

The coldest part of the evening was three quarters of an hour after sun-set, the thermometer could keep no higher than two and a half degrees above the freezing point. An hour after it got a degree higher, and another in the night, still the sire assorbed us great satisfaction; indeed we scarcely should have been able to have done without it.

But this hut, this afylum of fuch confequence to us, deferves to be deferibed. It was about feven feet by eight, and four in height: it was inclosed by three walls, and the rock which it was attached to ferved for a fourth; flat flones placed without mortar formed these walls; and the same fort of flones, supported by three or four branches of fir, composed the roos: an opening of three seet square, left in the wall, served for an entrance. Two paillasses placed on the ground served us for beds; and an open parasol placed against the entrance served us at the same time instead of a door and curtains. M. Bourrit, and still more so his son, were incommoded by the purity of the air; they did not digest their dinner, and could not eat any supper. For my part, whom the pure air does not incommode, if I use no violent exercise, I passed an excellent night in a light and quiet sleep.

When the parasol was not before the door, I could see from my bed the snows, the ices, and the rocks situated below our hut; and the rising of the moon gave to this view the most singular appearance. Our guides passed the night, some squatted in the boles of rocks, others wrapped up in cloaks and blankets, and others sat up and watched by a little fire, which they kept up with a part of the wood we brought with us.

As M. Bourrit the year before, at the same season, and in the same place, suffered severely from insupportable cold at sun-rise, it was settled that we should not set out till after six o'clock. But as soon as day began to appear, I mounted to my observatory and there waited the sun's rising. I found the view still very sine, less singular however than at the sun's setting; the vapours, less condensed, did not form in the horizon a cordon so dislinct and highly coloured, but in return I observed a singular phenomenon. It was formed of rays of a sine purple, which parted from the horizon to the west, precisely opposite the sun; they were not clouds, but a fort of thin vapour homogenous substance: these rays, to the number of six, had their centre a little below the horizon, and extended to ten or twelve degrees from this centre.

We had the precaution to take a warm mess of soup as a preventative against the cold; we then made an equal division amongst our guides of provisions, precautionary cloathing, and of my instruments, and in this manner set out at a quarter past six with the greatest hope of success.

Elevated as we were to one thousand four hundred and twenty-two toises above the sea, we had still one thousand toises to get up before we could attain the summit of Mont Blanc; in essect, the most exact measures allow this summit to be two thousand four hundred and twenty-six toises above the Mediterranean. Of these one thousand toises, we had to go about six hundred on the rocks of the Aiguille du Gouté, and the remainder on the snow.

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This Aiguille, or high mountain, feen from the environs of Geneva, presents itself under a round form, straight before, and under the highest summit of Mont Blanc. The ridge of rocks which descend from it appear like blackish surrows. From our hut we could distinguish this Aiguille under the same aspect as from Geneva; but as we were very near it, it concealed from us the height of Mont Blanc; we only saw the sky above these rocks.

The rapidity of the *couloirs*, or hollows, is so great, that it is impossible either to get up or down, and even if one should happen to fall, it would be found very difficult to re-

tain one's felf; one must either roll or slide to the bottom of the mountain.

This flope, by which we were to get up, as feen from Geneva, and also from our hut, appeared sharp and inacceffible; yet our guides affured us that on a near approach all these seeming difficulties would vanish: they even went so far as to say that the ascent from Bionassay to the hut was more difficult and more dangerous than what remained for us to attain the summit of Mont Blanc. It may then be easily conceived with what

courage and hopes we fet out.

We began by traverfing not a very floping glacier, which separated us from the base of the Aiguille, and in twenty minutes came to the first rocks of the ridge by which we were to get on this base. This ridge is rapid enough, and the broken or disunited rocks of which it is composed do not offer a very commodious patch. However, we mounted them very gaily in an hour and fome minutes: the temperature was fuch as we could defire: the air, between three and four degrees above the freezing point, was no colder than necessary not to heat us in ascending; we enjoyed the lively and encouraging pleafure to perceive our progrefs by the gradual decline of fummits which not long before had appeared above us. I felt a most lively joy, and which perhaps may appear puerile, when after having ascended twenty-five minutes I came to discover the lake of Geneva; it was the first time I had found myself high enough on the bases of Mont Blanc to be able to perceive it. I had also the pleasure to find here two handsome plants, aretia Alpina, and aricta Helvetica. This last is extremely rare in the Alps of Savoy. When we had attained the highest part of the ridge, it was necessary to climb a steep slope of snow to get on the glacier which forms the plateau of the base of the Aiguille, and there, for the first time, we were assisted by the hands of our guides, who were always anxious to offer us their help. It was near three quarter after feven o'clock when we got on this plateau: we had flattered ourfelves with the hopes of getting there fooner; and as we knew that this was but a fmall part of the whole of our undertaking, I thought I ought not to flop to observe the barometer.

We then paffed right to the foot of the Aiguille, and were upon the point of getting to it, when we faw with much furprise a man, who did not belong to our caravan, ascending before us at the glacier of Bionaslay. But this surprise changed into a cry of joy of all the cavalcade, when we discovered him to be Guidet, the brave fellow who the year before had accompanied M. Bourrit, and had gone with Marie Coutet almost to the summit of Mont Blanc: he was not at home when we fent for him; he had not begun his journey till late in the preceding evening, had got up the mountain in the night, and came by the shortest cut into the track that he knew we should take. The guides the most loaded hastened to let him have his share of the beggage, and he gaily

took his place in our rank.

The glacier that we were traverfing touches on one of the ridges of the Aiguille of Gouté, which is by its rapidity impracticable. This ridge is feparated from that which we were to follow by one of those rapid couloirs of which I have already spoken: it was necessary to traverse this couloir: the snow which covered it was still frozen, and excess-

fively hard; happily Goutet and Gervais, who had paffed there the day before in the afternoon, had found this fnow foftened by the fun, and had marked places in which we could put our feet. These traversings are what I most fear: if your feet fail you have little hope of being able to keep up; but when you directly alcend or descend, if you fall it is eafier to Itop yourfelf. Guidet wanted to pass below us, in case our footing thould fail, to which we would not confent, as the flope by which he had to pass in so doing was flill more rapid and dangerous than where we were; and we followed the method I had used in descending the glacier of the Aiguille du Midi. Each of us placed himself between two guides, who firmly held the two extremities of one of their long flicks; this flick formed at the fide of the precipice a fort of barrier on which we supported ourfelves; this barrier moved with us, made our walking fecure, and preferved

us from all danger.

After having traverfed this couloir, we attained the ridge of the rock we had to climb, and here it was that our task become difficult. We found this ridge incomparably more fleep than that which had conducted us on the bale of the Aiguille, the rocks of which it is formed being more incoherent, quite difunited by the injuries of the air; formetimes they rolled from under our feet; fometimes pieces came away in our hands when we laid hold of them; often not knowing where to lay hold, I was obliged to catch at the leg of the guide next before me. The afcent in fome places was fo Heep, that fometimes this leg was level with my head: in addition to our troubles, the fnow which had fallen two days before filled up the intervals of the rocks, and concealed the hard fnow or ice which we found here and there under our feet. Often the middle of the ridge became absolutely impassable, in which case we were obliged to go by the sides of dangerous conloirs by which it was bounded; at other times we met interruptions in the rocks, and it was necessary to cross snow which covered slopes extremely rapid. All these obstacles augmented gradually in our approach to the fummit of the Aiguille. At length, after five hours afcent, three of which passed on this satiguing ridge, Pierre Balmat, who preceded me, feeing that not only the flope continually became more fleep, but that we flill found, as we advanced, a greater quantity of fresh snow, proposed that I should rest myfelf while he went before a little to examine what we should do. I consented with fo much the more willingness, as I had not fat down fince our departure in the morning: I had femetimes flopped to take breath, but always flanding, supporting myfelf on the flick. As he advanced he kept calling to us to wait for him, and not to proceed farther till his return. After an hour's absence he returned, and informed us that the quantity of fresh fnow higher up was so great, that we could not attain the summit of these rocks without extreme danger and fatigue, and that there we should be obliged to stop, because the top of the mountain, beyond the rocks, was covered with foft fnow to the depth of a foot and a half, through which it was impossible to advance. His guêtres, covered as high as his knees, attested the truth of this report, and the quantity of snow all round us was also a fufficient proof of it. In consequence we agreed, though with regret, to proceed no farther.

The barometer, which I had tried during this halt, only supported itself at eighteen inches, one ligne, fourteen fixteenths, and the thermometer in the fhade at two and a half. At this time the barometer, observed at Geneva by M. Pictet at one hundred and fourteen feet above the lake, supported itself at twenty-fix inches, eleven lignes, thirtyone thirty-feconds; and the thermometer in the open air at fourteen degrees de Reaumur. This observation, calculated by the logarithms without regard to the temperature of the air, would give one thousand nine hundred and thirty-five toises above the sea. If we regard this temperature, in following the formula of M. De Luc, we should take

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rocks o before to defe younge always ceding foot ha tor him off feventy-two toises; but if we adopt the principles of naturalists, who have laboured to perfect M. De Luc's, we should make a much less considerable deduction. For, according to the Chevalier Shuckburgh, we should retrench but thirty toises; and according to M. Trembley, but twenty-eight; and so the height of the place where we stopt would be one thousand nine hundred and seven toises above the sea. Although I could not make these calculations on the place itself, as I did not know the heighth of the barometer in the plain, I well saw that we ought to be about one thousand nine hundred toises, and I told my fellow-traveller so; and in the chagrin we felt for not having been able to complete our enterprize, it was some consolation to us to know that we had been higher than any other known observer in Europe had ever been before.

I observed the hygrometer, the electrometer, the structure of the rocks which surrounded us; I collected several samples of these rocks; we admired the immense extent of the prospect which presented itself to our view; to the south-west we could see the river liere much beyond Chambery, and our view to the north-east extended to Gemmi, and in this demi-circle, whose diameter is about sifty leagues, we darted above the highest mountains; we could see our lake at the left of the mole, and on the right the mountains of Abondance. The Jura alone terminated our horizon to the north-west, for we saw it even above the summit of the Buet, which was more than two hun-

dred and feventy toifes below us.

Meantime our guides preffed us to return. Although the thermometer in the fhade supported itself only at two, five, and that the immediate action of the sun's rays made it only mount to four, seven, yet this same sun appeared to us extremely ardent, and when we flood still we could scarcely bear it without the help of a parasol. This made our guides fearful that the late snow, half melted by its rays, would augment the difficulty of the descent. It is known that dangerous ways are more difficult in descending than mounting, and we had passed some very bad in getting up. However, by walking with care, and the help of our guides, whose strength and courage were equally admirable we returned without any accident to the plateau of the base of the Aiguille of Gouts.

As I was no longer preffed for time, I observed the barometer at the border of the flope towards the lake, and its height compared, according to M. De Luc's method, with that which he then bad, gives to this plateau one thousand four hundred and ten toises above our lake, or one thousand five hundred and ninety-seven above the sea, which makes about nineteen toises more than the summit of Buet. It was also a fatisfaction to me to have found there a more convenient situation for divers experiments, more elevated than the Buet, and of an easier access also. This same elevation, calculated according to M. Trembley's formula, would be one thousand four hundred and forty-sour toises above the lake, and one thousand fix hundred and thirty-seven above the sea.

From thence I re-defeended to the hut very flowly, and in observing at leifure the rocks over which I passed. On my arrival there I found M. M. Bourrit, who had gone before us, and who selt so little fatigued from the journey, that they were getting ready to descend to the village of Bionassay. This was the more surprising, as M. Bourrit the younger had been ill the day refore, and indisposed all the night; M. Bourrit the father, always pre-occupied by the dread of the cold, from which he suffered so much the preceding year, had mounted and descended the mountain with furred shoes, in which his foot had no stability, and which rendered this excursion so much the more tiresome for him.

For my part, from having found myfelf fo well the preceding night in the hut, I refolved to pass this night also in it; either to continue my meteorological observations, or to observe in my descent the nature and structure of the mountain, which I could not have done if I had left it the same day; for night came on before M. M. Bourrit

had got half way down.

Immediately after their departure I went and placed my inftruments on the rock which I called my observatory, I there still enjoyed the magnificent spectacle of the sun's setting; and after a very good night in the hut, I continued in the morning my meteorological observations: I compared with great exactness, by means of a level, the elevation of this rock with that of the mountains which appeared to equal it nearly in height. I then descended slowly in picking up stones, and stopped a good while to observe those which are carried down by the glacier of Bionassay. Here are found all those of which the Aiguille of Gouté is composed. I went to dinner at Bionassay, and from thence a horseback to sleep at Sallenche.

If this attempt should be made again, I think it would be necessary to erect the hut, where one should sleep, at least two hundred toises higher than ours, that is to say, at the very foot of the rocks of the Aiguille du Gouté; and thus attack those sharp and uneven rocks with all the vigour that a night's rest gives, and before the heat commences. I likewise think that if some guides were sent two or three days beforehand to form a fort of stairs in the most rapid slopes, or at least chuse the casiest passages; for our guides, almost as great strangers as we in those deserts, were often divided in their opinions in the rout we should take; yet nothing is less certain than that we had always taken the best. But whatever means may be imagined to facilitate this enterprize, it should not be hazarded in a year of great snow, but at a time perfectly safe, with muscular joints, and a head

well accultomed to the fight of precipices.

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FURTHER ATTEMPTS TO ASCEND MONT BLANC *.

HAVE given in the second volume, Chap. 52, the history of the useless attempts that were made, to the year 1785, to attain the summit of Mont Blanc.

To complete this history, I ought to say a word of an excursion made for the same purpose in 1786. This excursion was not successful, though it certainly was that which determined Dr. Paccard and Jaques Balmat to undertake the one made at the end of the summer of the same year.

It may be remembered that the 13th of September, 1785, I had attempted with M. Bourrit, to feale Mont Blane by the Aiguille du Gouté, but that we met with new fallen fnows which forced us to stop at the height of 1935 toises above the sea.

As the obstacle that these snows had opposed to our design, appeared to us to be the effect of the latencis of the season, I resolved to repeat the attempt the following year; at a time when the new snows should be less formidable. In consequence, and to lessen as much as possible the fatigue experienced in the last journey, I ordered Pierre Balmat to creck a hut at the foot of one of the ridges of the Aiguille du Gouté, and as soon as the season would permit to make some excursions on that side, in order to chuse the most convenient route for me to take.

To execute this project, Pierre Balmat, Marie Coutet, and another guide, went the 8th of June, 1786, to fleep at our old hut at Pierre Ronde, and fet out for it at break of day; they got up the fame ridge that I had followed the preceding year, and attained, although with great difficulty, the fummit of the Aiguille du Gouté, after having all fucceflively fallen ill from fatigue and the rarity of the air. From thence by proceeding an hour on the fnows in the iame direction, they came to the height of the Dome du Gonté; there they found François Paccard and three other guides, with whom they had concerted this rendezvous, and who had paffed by the mountain of La Côte to come to the fame place, always believing that it could be only by the Aiguille du Gonté that the fummit of Mont Blanc was to be attained; and they had divided themselves in two parties to make a comparative trial of the two routes which led to the summit of du Gouté. This comparison was entirely to the advantage of the route by the mountain de la Côte. François Paccard and his companions had arrived an hour and a half sooner, with much less fatigue and danger than Pierre Balmat, who had passed by the Pierre Ronde.

After having joined, they traverfed a great plain of fnow, and came to a ridge which unites the fumnit of Mont Blanc to the Dome of Gouté; but this ridge was found to be fo narrow between two precipices, and at the fame time fo dangerous, that it was impossible for them to follow it, and attain the fumnit of Mont Blanc. They then examined at different parts the approaches to this fumnit, and the refult of this fearch was, that it was abfolutely inaccessible at least by the Dome of Gouté. They returned from thence to Chamouni by the mountain de la Côte, much discontented with their expedition, and harassed by a storm accompanied with snow and hail.

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But they did not all return; one of those who had followed François Paccard by the mountain of la Côte, was Jaques Balmat, fince become famous by his afcent to the fummit of Mont Blanc. He was not to be of the party in this excursion; he had joined Paccard and his party almost in spite of them. In returning from the Dome of Gouté, as he was not on good terms with the others he walked by himfelf, and kept apart from them to fearch for chrystals in a rock at some distance. When he wished to rejoin them or at least follow their traces on the snow, he could not find them; mean time the storm came, and being fearful to venture himfelf alone in the middle of these deserts in the florm and at the approach of night, he preferred fquatting himself down in the snow, and there patiently wait till the florm flouid cease and the coming of day-light; he there fuffered much from the hail and cold; but towards morning the weather cleared up, and as he had the whole length of the day to return, he refolved to confecrate part of it to the trying if he could not, among thefe valt and unknown folitudes, find out a way by which the fummit of Mont Blanc might be attained. It was thus that he discovered that which has been followed, and which is certainly the only one by which it can be attained.

He did not immediately on his return to Chamounie make his discovery known, but as he found that Dr. Paccard had thoughts of making a fimilar attempt, he communicated the secret to him, and offered to serve him as a guide. The success of this enterprize has been made known to the public by the relations which have been given of it

by Dr. Paccard and M. Bourrit.

What is remarkable in the difcovery of this route is, that it is the fame which prefents itself the most naturally to those who view Mont Blane from Chamounie, and is also that which those who made the first attempt tried, but of which they became difgusted by a singular prejudice. As it proceeded by a fort of valley between great heights, it was imagined too warm, and that it excluded the air too much. This valley is nevertheless very wide, and accessible to the winds, and the ices which form the bounds are not of that nature to heat it. But satigue and the rarity of the air gave to those, who made the first attempts, this oppression of which I have so often spoken; they attributed this oppression to the heat and slagnation of the air, and they no longer endeavoured to attain the summit otherwise than by the known and isolated ridges, such as that of Gouté.

The people of Chamounie likewife had an idea that fleeping on the heights would be attended with death, but the trial made by Jaques Balmat in paffing the night on them, banished this fear; and the impossibility of coming to it by the ridges forced them to

take the most natural and apparent route.

JOURNEY OF SAUSSURE IN AUGUST, 1787.

DIVERS periodical works have informed the public, that last year in the month of August two inhabitants of Chomounie, Mr. Paccard a physician, and Jaques Balmat the guide, attained to the summit of Mont Blanc, which till then had been deemed im-

possible.

It was made known to me the next 'ay, and I immediately fet out to endeavour to follow their traces; but there fell fo much rain and fnow that I was forced to give up the project for this feafon. I commissioned Jaques Bahnat to visit the mountain in the beginning of June, and to let me know as soon as the finking of the winter snow should render it practicable. In the interval I went into Provence to make experiments by the sea side, with a design to compare them with those I proposed to make on Mont Blanc.

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My g met with fummit, amid the imagine VOL 1 Jaques Balmat in the month of June made two useless attempts, mean time he wrote me word he had no doubt but it might be done in the month of July. I then set out for Chamounie. At Salenche I met the courageous Balmat, who was coming to Geneva to inform me of his new success; the fifth of July he had attained the summit of the mountain with two guides, John Michel Cachat and . is Tournier. It rained on my arrival at Chamounie, and the bad weather continued three weeks; but I was determined to wait till the end of the season, rather than miss a favourable opportunity.

This opportunity so much defired came at last, I took my departure accompanied by a fervant, and eighteen guides who carried my instruments and other necessary ap-

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My eldest for was extremely defirous of accompanying me; but I was afraid he was neither strong enough nor sufficiently accustomed to excurs as of this nature, therefore insisted that he should give up the design. He staid at the Priory, where he made, with much care, observations similar to those I made on the top.

Although it is hardly two leagues and a quarter in a direct line from the Priory of Chamounie to the fuminit of Mont Blanc, it takes eighteen hours to walk it, on account of the bad road, the turnings, and about one thouland nine hundred and twenty toiles

to get up.

To be perfectly at liberty in the choice of the places where I should sleep, I had a tent carried, and the first night I slept under it on the summit of the mountain of Côte, which is situated on the south of the Priory, and at seven hundred and seventy-nine toises above this village.

This journey is free from pain and danger, the afcent is always on the grafs or on the rock, and the excursion is easily made in five or fix hours. But from thence to the top,

there is nothing but ice and fnow to walk on.

The fecond journey is not the easiest. We had immediately to cross the glacier of the Côte to get to the foot of a chain of rock inclosed by the snows of Mont Blanc. This glacier is difficult and dangerous. It is intersected by large, deep, irregular crevices; and it is often difficult to pass them except over bridges of snow, which are sometimes extremely slight, and suspended over abyses. One of my guides had nearly perished here. He had gone the day before with two others to reconnoitre the passage, happily they had had the precaution to fasten themselves together by cords; the snow gave way under him in the middle of a wide and deep crevice, and he continued suspended between his two companions. We passed by the opening which had been formed under him, and I trembled at the sight of the danger he had run. The passage of this glacier is so difficult and winding, that it took us three hours to go from the top of the Côte to the first rocks of this isolated chain, though it is little more than a quarter of a league in a direct line.

After having attained these rocks, we soon quitted them again to go up a winding valley full of snow, which stretches from north to south to the foot of the highest summit. This snow is intersected at different distances by enormous and superb crevices. Their lively and neat form shews the snow disposed of in horizontal beds, and each of these beds answer to a year; be the largeness of its crevices what it may, the bottom

can no where be discovered.

My guides wished we should pass the night near some of those rocks which are to be met with in this route, but as the highest are six or seven hundred toises lower than the summit, I was desirous to get higher up. To do this, it was necessary to pitch our tent amid the snows, this I had much trouble to make my companions consent to. They imagined that during the night there reigned on these high snows an insupportable cold,

and feriously believed they should perish there. At last I told them, that for my part I was determined to do it with those amongst them on whom I could depend; that we would dig deep in the fnow and cover this hollow with the covering of the tent, and there that ourfelves in together, and in this manner we should not suffer from the rigour of the cold. These arrangements having encouraged them, we pursued our course.

At four in the evening we got to the fecond of the three great platforms of fnow which we had to pass, and there we pitched our tent, one thousand four hundred and fifty-five toifes above the Priory, and one thousand nine hundred and ninety-five above the sea, ninety toiles above the pike of Teneriffe. We did not attempt to get to the last plat-

form, because there we should be exposed to the fall of avalanches.

The first platform by which we had sately past is not exempt from them. We had paffed over two of these avalanches, which had fallen since Balmat's last journey, the

broken remains of which covered the whole valley.

My guides immediately fet about excavating a place where we might pass the night; but they very foon felt the effect of the rarity of the air *. These robust men, to whom feven or eight hours walking is in reality nothing, had hardly thrown up five or fix shovels of snow when they found it absolutely impossible to continue; they found it neceffary conftantly to relieve each other. One of them who had turned back a little to fetch fome water in a cask from a hollow, was taken ill in going, returned without water, and paffed the night in the most agonifing pain. Myself who am so accustomed to the air of the mountains, and who feel better in this air than in the plain, I was overcome with wearinefs in observing my meteorological instruments. This illness caused in us an ardent thirst, and we could not procure water but by melting the snow, for the water we had feen in coming up, was found frozen when they returned to fetch fome, and the little chaffing dish we had with us afforded a flow supply for twenty thirsty persons.

From the middle of this plateau, enclosed between the last fummit of Mont Blanc, to the fouth, its high steps to the east, and the Dome du Gouté to the west, there is scarce any thing to be feen but fnow; this fnow is quite pure, of a dazzling whiteness, and on the high fummits forms the most fingular contrast with the almost black sky of these high regions. No living creature to be feen, no appearance of vegetation; it is the dwelling of filence and cold. When I represented to myself Doctor Paccard and Jaques Balmat arriving the first at the close of day in these deserts, without shelter, without succour, without even knowing that mankind could exist in those places they were attempting to get to, but continuing nevertheless boldly their career, I could not but admire

their refolution and courage.

My guides always occupied with the fear of cold, fo closely that all the openings of the tent, that I suffered much from the heat and impurity of the air, occasioned by the refpiration of fo many people. I was obliged to get out in the night for the fake of taking breath. The meon shone with the greatest lustre in the middle of the sky of a dark ebony colour, Jupiter feemed to throw out strong rays of light from behind the highest fummit to the east of Mont Blanc, and the reverberating light all over this extent of snow was fo dazzling, that only the ftars of the first and second magnitude were distinguishable. At length however we began to fleep, when we were awaked by the noife of a great avalanche, which covered part of the declivity that we should have to climb the

At break of day the thermometer was three degrees below the freezing point. It was late when we fet out, owing to the necessity we were under of melting fnow for

* The barometer flood but at 17 inches 1021 lines.

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breakfast, and to have some to carry with us; it was no soone melted the admank, and those people who religiously guarded the wine I had brought with us, and really the the water I had in referve. We began by afcending the third and last lastorm, to a took to the left to get on the highest rock at the east of the fummit. I declivity tremely flanted, thirty-nine degrees in fome places, and every where borders on pracipices, and the furface of the fnow was fo hard, that those who went first were obliged to break it with a hatchet before they could gain a footing. It took us two hours to climb this declivity, which is about two hundred and fifty toiles high. Coming to the last rock, we took to the right inclining westerly to climb the last declivity, the perpendicular height of which is about one hundred and fifty toifes. This declivity inclines only to twenty-eight or twenty-nine degrees and is not dangerous; but the air is so rarified that our firength vifibly failed, as near the fummit I could only go fifteen or fixteen steps without taking breath, I even felt now and then a fort of fainting which obliged me to fit down, but in proportion as I recovered my respiration, I selt my strength return; when recovered enough to proceed, I feemed as if I could get to the top at one stretch. All my guides in proportion to their strength were in the same situation. It took us two hours from the last rock to the summit, and it was eleven o'clock when we gained it.

My first looks were fixt on Chamounie where I knew my wife and her two fisters were, their eyes fixed to a telescope following all our steps with an uneasiness, too great without doubt, but not less distressing to them. I felt a very pleasing and consoling sentiment when I saw the slag which they had promised to hoist the moment they observed

me at the fummit, when their apprehensions would be at least suspended.

I could now enjoy without regret the grand spectacle I had under my eyes. A light vapour suspended in the lower regions of the air, concealed from my sight the lowest and most distant objects, such as the plains of France and Lombardy; but I did not much regret this loss. What I had just seen and what I saw in the clearest manner, is the whole of all the high summits of which I had so long desired to know the organization. I could hardly believe my eyes, it appeared to me like a dream, when I saw placed under my eyes those majestic summits, these redoubtable Aiguilles, the Midi, the Argentiere, the Geant, whose bases even had been for me of such difficult and dangerous access. I seized their relation to each other, their connection, their structure, and a single glance cleared up doubts that years of labour had not been able to dissolve.

During this time my guides pitched my tent, and fet out the little table on which I meant to make the experiment of the ebullition of the water. But when it was necessary for me to dispose of my instruments and observe them, I found myself every mo-

ment obliged to suspend my work, and attend only to my respiration.

If it is confidered that the barometer was then only at fixteen inches one line, and that thus the air had little more than half of its ordinary denfity, it may be comprehended that it was necessary to supply it by the frequency of inspirations. When I was perfectly quiet, I only telt a slight pain at my breast; but when my attention was fixed for some moments in continuation, and particularly when in stooping, I leaned on my stoomach, I was obliged to rest during two or three minutes, to recover myself again. My guides selt the same sensations. They had no appetite; and to say the truth, our provisions, which were all frozen, were not in that state calculated to excite one; neither did they care for wine, or brandy, indeed they had sound that strong liquors increased this indisposition, without doubt by increasing the quickness of the circulation. It was fresh water only that did them good, and afforded them pleasure; but time and trouble were wanting to make a fire, without which we could not have any.

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I nevertheless remained at the top till half after three, and although I lost not a single moment, I was not able in these four hours and a half, to make all the experiments I have frequently made in less than three hours at the sea side. I made however with care the most effential ones.

I got down easier than I expected. As the motion in descending does not press the diaphragm, it does not confine the respiration, and one is not, therefore, obliged to stop so often to take breath. The descent from the rock to the first platform was nevertheless very difficult by its great steepness, and the sun shined with such brightness on the precipices beneath us, that it needed heads well accustomed to such sights not to be terrified. I again slept on the snow two hundred to sless lower than the preceding night. There it was I became convinced that it was the rarity of the air which incommoded us on the summit; for if it had been from weariness we should have been much siever after this long and dangerous descent; but, on the contrary, we supped with a very good appetite, and I made my observations without any obstruction from indisposition. I even be seve that the height where this indisposition begins is fixed, beyond which it is impossible to proceed farther. For my own part I find myself very well at one thousand nine hundred to seven the sea, but as soon as I get higher I seel myself indisposed.

The next day we found the glacier of the Côte changed by the heat of these two days, and still more difficult to pass than it was getting up. We were obliged to descend a declivity of snow, inclined to fifty degrees, to avoid a crevice which had opened during our journey. At length at half after nine we found ourselves approach the Côte mountain, very happy to find ourselves again in a place where we were not assaid of it sinking under our feet.

There I met Bourrit who wanted to engage some of my guides to go up again with him; but they sound themselves too satigued, and wished to rest themselves at Chamounie. We descended very gaily to the Priory, where we got to dinner. It was a great pleasure to me to have them all return safe, and well with their eyes and face in the best possible state. The black crapes with which we had provided ourselves, and with which we covered our faces, had perfectly preserved us from the temporary blindness, and chaped and burned saces often occasioned by the reverberation of the snow, which those who had gone there before us had selt.

Details of the Journey.

IN going from the Priory to Mont Blanc, by the Côte Mountain, you must begin by following the road to Geneva, as far as the village of Buissons, and then take the path which leads to the glacier of that name. But at the soot of the declivity which leads to this glacier, you turn to the right which leads to the hamlet of the Mount.

This hamlet is fituated on a hill of gypfum; on the furface of this hill are feen hollows, some in the form of funnels, others on the contrary have only a narrow orifice, and widening farther in. I was shewn one in a field scattered over with bushes, the opening of which was but a foot wide, but farther in its diameter was ten or twelve feet of a spherical form. Without doubt, these hollows are made by the waters which dissolve, and draw with them the gypfum which forms the hill, whilst the vegetable earth, withheld by the roots of grass and bushes, rests suspended above these cavities. As to the spherical form of these cavities, it is difficult to explain; neither are those geometers who give the account.

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A little beyond the Mount we began to afcend, in pursuing the borders of the torrent which issues from the glacier of Taconay; there instead of fixed rocks we only find wrecks, displaced rocks, composed of quartz, of mica, of shifts hornblende, or of ferruginous horn stone, which dissolves in the air, and changes into oxide of iron of a rusty colour. These fragments have frequently a rhomboidal form.

Soon after are seen to our lest yellowith rocks, which decompose, and whose nature is the same as those fragments. As to their structure and situation, they are, in general,

conformable to the other works of Chamounie.

In proportion as we got higher we found the horn rock abound more in these fragments, nevertheless one meets some sine knots of granite of selspar, of an almost black grey, mixed with white quartz; of quartz crossed with threads of amianth and others.

This ascent is extremely wild, at the bottom of a narrow valley, with the glacier of Taconay in front, bristled with slakes of ice, not clear and white, like those of Buissons, but soiled by a black mud, and intersected with rocks of the same colour: but in getting up higher we discovered above this glacier, clear and sharp-edged snows of the Dome of Gouté.

Till within half a league beyond the hamlet of the Mount, you may go on mules for

about two small leagues from the Priory; but all the rest on foot.

Soon after we got above the glacier of Taconay, some part of the way became difficult; we then met with a clear fountain of fresh water, where the guides already fatigued with their loads took some rest.

There we faced the glacier of Taconay, remarkable for the different colours of its ices, which at our fide on the right bank is muddy and black, whilft on the opposite

bank they are transparent and white.

The rocks on both fides are the fame as those I have above described; they divide frequently into oblique angled parallepipeda; their situation and structure are also the same.

In getting up higher we found harder grey rocks, resembling veined granites, with lengthened knots and veins of quartz, parallel to their beds and layers. Afterwards we got nearer the glacier, and climbed a sloping declivity to the Moraine, whose ridge we followed for some time; we soon after left it entirely by getting higher on the mountain to the left.

Half an hour after having quitted the glacier, we came to the foot of a pretty high fharp rock, which guards a narrow and deep cavity, from which there is no way of getting but by fealing this rock; this paffage is called the *Mapas* or *bad flep*: they had placed a ladder there for me, on a supposition I should want it, but as I was unwilling to give my guides a bad opinion of my intrepidity, I passed on without touching it.

Beyond the Mapas we were obliged to pass by some narrow corners on high sharp

ridges.

We then followed an uneven ridge, with the precipice to the right, and very uneven fields to the left; after that we climbed a flope to a cavern, where I flept the 20th of August 1786, when, immediately after Doctor Paccard's journey, I endeavoured, by following his steps, to attain the summit of Mont Blanc. But in the night there happened such a storm of rain and snow, that I was obliged to return forrowfully, and put off the attempt till the following year.

Each of these journeys took me about four hours, without including rest, from the

Priory of Chamounie to this cavern.

The fuminit of this rock, to the north-west of this cavern, presents a very fine prospect: it forms one of the heights of the narrow ridge of the Côte mountain, which see

parates the glacier of Taconay, from that of the Builions. The neck by which it is paffed is about fix hundred toiles above the Priory of Chamounie. From this ridge is feen the two glaciers just mentioned, and which lay immediately under our feet, all the valley of Chamounie, to the defile de Balme, and the two chains which border this defile: farther on is feen the tower d'Ai, and the Aiguille of Midi, which over-tops St. Maurice, as well as other heights at a greater distance. From the opposite side is feen the mountain beyond the glacier of Taconay, which bears the name of this glacier, and the trenches of the beds of this mountain. These beds shew with the greatest regularity their position. Finally, in the same direction the profile of the Aiguille of Gouté also offers the same position of beds.

But the most singular point of view is that of the ridge itself, on which we stood, seen at its full length from the north-west side. Great blocks of rocks with sharp angles, boldly and singularly heaped on each other, crown the summit of this ridge, and present the most wild and fanciful aspect; the smiling and beautiful parish of Ouches appears

divided by these sterile rocks, and forms with them a striking contrast.

One of these blocks, which is sharp angled, projects very much over the precipice, and is called from its shape, the bird's beck. It is said, that a shepherd, who laid a wager to go and seat himself on the point of this beck, actually got to it, and sat on it, but that in moving to come away, he lost his equilibrium, fell, and was killed upon the pot.

The rocks of this part of the ridge are for the most part of schissus, composed of black hornblende, and white felspar. There is frequently found in the crevices of these

rocks, translucid little crystals, of felspar a little inclining to green.

It was twelve when we came to this ridge; I stopped half an hour to give my guides time to dine. During this time I amused myself with the sight of some people a great way beneath me, who were crossing with great difficulty, supported by their guides, the lower plateau of the glacier of Buissons, and who very probably were proposing to themselves at their return to make a pompous recital of their undertaking, and the risks they had run.

I looked, but looked in vain, on the fecond platform, for two of my guides, who had flattered themselves with the expectation of getting before us to the ridge, where we were, in passing by this platform of the glacier, which in effect presents a more direct route to the Priory. But as some of the way is very bad, we were very uneasy at not

feeing them. They however rejoined us, but very late.

After having crossed this ridge, we continued to ascend obliquely, between the glacier of Buissons and the top of this same ridge, the rocks of which are always of veined granite, here and there mixed with beds of sciente schiefte, or of a soliated rock, composed of bladed hornblende, and selspar. The beds of these rocks are always in the same situation.

We passed under a deep cavern, where Jaques Balmat, in his preceding journey, had concealed the ladder which was to assist us in crossing the crevices of the glacier, likewise a pole to make use of in very bad places. He found the ladder, but the pole was stolen; it is singular that thieves should find their way to such a place; however, it cannot be said they were highway robbers.

We also passed by the foot of the Aiguille de la Tour, which is the highest point of this ridge. We afterwards climbed some granite veined rocks, always situated in the same

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manner; and we arrived, at three quarters after one, at the funmit of the Côte mountain, at the place where we were to pass the night.

The first journey took us but fix hours and a half from the Priory to our sleeping-

place.

This sleeping-place consisted of a great heap of blocks of granite, among which my guides hoped to find shelter, and where Dr. Paccard and Jaques Balmat had slept the first night of their expedition. These blocks have been forced there by the glacier which is very near, and which is to be crossed to make a way to the summit of Mont Blanc. And there it is we quitted the firm ground to embark on ice and snow to the end of the journey.

The crofling of the glacier in the morning while the fnow is hard is to be preferred, as it becomes much more difficult when the heat of the fun has foftened the fnow.

This is what Marie Coutet found under whom the snow gave way, when he went to reconnoitre the way we should go the next day. Happily, as I have said in the abridged relation, he rested suspended by the cords which fastened him to his two comrades, who had accompanied him. At their return we were all eager to have an account of the expedition; as soldiers are to ask the spies of an army news of the enemy's fituation. Marie Coutet, with great seeming indifference and even gaiety, told his story; notwithstanding which, his recital cast a shade of forrow on the countenances of his hearers; the most heroic smiled at it, but the rest viewed it in a more serious light. Mean time nobody talked of returning there, but, on the contrary, began to look out for a place of shelter to pass the night: some went to my old lodging, where they hoped to be warmer; others fixed themselves between the blocks of granite, for my part, I slept under my tent with my servant and two or three of my ancient guides.

The next day, ad of August, notwithstanding the interest we all had in setting off early, there arose such difficulties among the guides in the arrangement and division of their loads, that it was half after six o'clock before we set out, each fearing to load himself, less from fear of the hardship, than of finking in the snow by the weight of himself

and load, and by this means fall into a crevice.

We got on the glacier, opposite the blocks of granite under which we slept; the entrance on it was eafy enough, but we foon found ourfelves entangled in a labyrinth of rocks of ice separated by large crevices, in some places opening very wide, in others covered either wholly or in part by the fnow, which fometimes forms a fort of arches underneath, and which are fometimes the only refources in one's power to get over these crevices; in other respects it is an uneven ridge of ice which serves as a bridge to cross over. In fome places, where the crevices are quite empty, we had to go down to the bottom and get up at the other fide by stairs cut with a hatchet in the very ice: but in no part is the rock found or feen "; and fometimes after having got to the bottom of these abysses, surrounded with almost perpendicular walls of ice, you can hardly conceive how you shall get out again, however as long as they walked on the ice, though ever fo narrow the ridges, and flanting the declivities of it are, thefe intrepid Chamouniards, whose head and feet are equally firm, appear neither afraid or uneasy; they talk, laugh, and defy each other in jest; but when they pass over these slight roofs suspended over deep abyfies, they walk in a most profound silence; the three first tied together by cords, about five or fix feet distance between them; the others two by two holding their slicks by the ends, their eyes fixed on their feet, each endeavouring to place exactly and lightly his foot in the traces of the one before him. Above all it was after we had feen the place where

Marie Coutet had fallen, that this fort of fear increased; the snow had quite given way suddenly under his feet and formed round him an empty space of about six or seven feet in diameter, and discovered an abyse to which was seen neither bottom nor sides; and that in a place where no exterior danger appeared. When after having got clear of some of these suspicious snows we found ourselves on a rock of ice, the expressions of joy and serenity shined on all our countenances, and our jokes and good humour rereturned. We then held a council on which way we should take, and grown bold by success, we exposed ourselves with the greatest considerace to new dangers. It took us three hours to cross this redoutable glacier, although hardly a quarter of a league in breadth. From this time we had only to walk on snow, often rendered extremely difficult by the very great slants of the declivities, and sometimes dangerous when these declivities bordered on precipices: but in this case at least we had no dangers to encounter but what we saw, and where we ran no risk of being swallowed up, without either strength or address being of any avail to us.

In going from this glacier, we were obliged to climb one of those declivities of snow extremely sloped, after which we had to pass to the foot of the lowest and most northerly rock of a small chain of insulated rocks, in the middle of the ices of Mont Blanc.

This chain runs pretty near from north to fouth, and is entirely composed of primitive foliated rocks, the elements of which are of blackish or greenish plates of hornblende, of felspar, of plombagine, with a little quartz and mica.

There is found there also a greenish stone, brilliant enough, translucid, sibrous and schistose, pretty hard, sussible by the blow-pipe, in a globule of 0.3, line of green glass, translucid, of a greasy lustre. This substance agrees much with the steatite as bestiferine of St. Gothard; but its parts are finer, it is more brilliant, harder, more sussible, and produces a clearer glass. But except another species is made, I cannot compare it to any other.

As to the rest, the felspar, which forms a part of the composition of these rocks, is of the fort which I call fat, because it has a fat and oily lustre. All the rocks of this chain have their beds situated like those of the Côte mountain, according to the general law of the Chamounie rocks, but are inclined low.

This chain at the eastern fide is separated from the Aiguille du Midi, and some mountains, which join this Aiguille with Mont Blanc by an extremely wild glacier, almost wholly composed of seracs.

The name of ferac, in our mountains, is given to a fort of white compact cheefe, taken from whey, and prefled in a fort of rectangular cases, where it takes a cubical form, or rather rectangular parallelipidus. The snows at a great height frequently take this form when they freeze, after having in part imbibed water. They then become extremely compact; in this state, if a thick bed of this hardened ice comes on a declivity, and should, as it often happens, slide down in a body on this declivity; and, in so sliding, if some parts of the mass should not go equally with the rest, their weight forces them to break in pretty near rectangular fragments, some of which may measure sifty feet, and which, by reason of their having no mixture, are as regularly formed as if they had been chisseled.

On the faces of those great parallelipids is seen one of these beds of snow accumulated from year to year, and passing gradualty from the state of snow to that of ice, by the infiltration and successive freezing of rain and other waters which result from the superior beds after melting.

We had also at our right great heaps of snow into this form of ferae, and we should have been obliged to pass between their intervals with much difficulty and danger, had

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it been ever so little later in the season, but a bridge of snow which would have melted in a few days, served us to cross an enormous opening, and saved us the trouble of passing amid the serves.

We rested ourselves some moments in the shade of some rocks of the isolated chain,

of which I have spoken higher up.

We then went to the west, after which we again approached it at the place where the year before I had the hut erected with the intention of sleeping there, but, as I have already mentioned, bad weather prevented me from getting there. In other respects, this station had been badly chosen, being too near the first; as it is not more than one hundred and twenty toises above the top of the Côte mountain; so that we should have had nine hundred toises to ascend the third day; whilst, on the contrary,

it was necessary for several reasons to leave the smallest portion for the last.

The nature of the rocks which compose this part of the insulated chain is still the same; and there is besides observable some argillaceous schistus of the nature of slate, and some schistose granite rocks with some knots of quartz; the situation of their beds is always the same, but approaches nearer to the vertical. There, and higher up, this chain is frequently interrupted by snows; the points of these rocks project like little islands or shelves from the sea of snow which covers this vast region. My guides caused me to lose a great deal of time here under the pretext of breakfasting and resting; their intention was to delay our journey, that we should not be able before night to venture ourselves on that part of our way where we should meet no more rocks, and where we should be obliged to sleep on the snow. We did not set out again till eleven o'clock, although we arrived about nine.

I again found the Dispensia Helvetica in flower on these rocks.

We had from thence a glimple of the lake across the valley of Abondance from the first rocks; but in continuing to ascend saw it still better, we could even very well distinguish the town of Nyon. The mountains of Faucigni appearing lower and lower before us, l'aiguille percée of Reposoir was that which kept longest in sight, owing to its nearness to us, and its projecting summit in a distant horizon, for we could only call the view of those completed over which we could see the Jura. Every victory of this fort was a subject of joy to the whole party: for nothing animated and encouraged us more than a distinct view of the progress we made.

After an hour's walk we came to an immense opening, along which we had to coast.

And although a hundred feet wide, we could perceive no bottom to it.

The moment we were standing on its edge resting ourselves, admiring its depth, and observing its beds of snow, my servant, by I do not know what heedlessness, let fall the stand of my barometer, which he held in his hand; it flided with the rapidity of an arrow on the flanted wall of the opening, and fixed itself at an immense depth at the opposite fide, where it continued vibrating, like the lance of Achilles on the banks of the Scamander. I felt a very lively movement of concern, because it not only served as a prop to the barometer, but also to a compass, a telescope, and many other instruments which fastened on it; in a moment some of my guides, sensible of my concern, offered to go for it, but as my fear of exposing them to too much danger prevented my confenting to it, they protested there was no danger, and immediately one of them passed a cord under his arm, and the others let him down to where it was, he drew it away and brought it back in triumph. I had a double uneafiness during this operation: first, the danger of the suspended guide; next, as we were within view of Chamouni, from whence with a telescope all our movements were perceivable, I thought that if at this moment our friends had their eyes fixt on us, they would, without doubt, think one VOL. IV.

of us had tumbled into the abyss, and that the others were getting him up. I have been fince informed, that happily at this moment they were not looking at us.

We were obliged to cross this same opening on a dangerous bridge of snow; after which, by a very sloping declivity of snow we came to one of the rocks of the insulated chain, where I slept the day of my return from the summit, and for that reason I called it the rock of Happy return; its height is one thousand seven hundred and eighty toises.

We arrived there at half after one, and dined in the fun with a good appetite, but much regretted the want of water, when one of the guides thought of a very ingenious method to procure fome: they threw fome balls of flow against the rocks exposed to the fun, part of which sticking melted by the heat of the rock, and we saved it by little and little as it fell; to relieve themselves they threw the snow-balls by turns, and formed a fort of well, which supplied us with as much water as we wanted.

This rock, as well as that which is more to the fouth, and the last of this insulated chain, is like the others composed of primitive schistose rocks, mixt with quartz, hornblend, and selfpar, with knots, some of pure quartz, others of granite rocks. The highest shew some veins, some of black hornblende pretty near pure; others of white selfpar; but an oxide of iron which comes from the hornblende dissolved, gives to all these rocks a yellowish cast. The beds of these schistuses are also situated according to a former observation, but are almost vertical.

This infulated rock, in the midft of fnow, appeared to my guides a delightful place, an island of Calypso; they could not prevail on themselves to quit it, and seemed determined to pass the night there. In the abridged relation has been seen what trouble I had to make them leave it.

From thence in an afcent of about thirty-five minutes we attained the first great platform of snow which presents itself in this route. The declivity of this platform is from ten to twelve degrees, but it is a plain in comparison of the declivities we had climbed.

At our left lay the Aiguille du Midi, which began visibly to lower to our right; the Dome of Gouté, where the disloved hornblende predominates. The summit of this dome cut almost a sharp point on our side, covered with a roof of snow, half circular, like the arch of a bridge, and crowned by a continuation of those enormous blocks of snow of a cubical form which I have named seracs, presented the most singular and magnisheent view. Before us the summit of Mont Blanc, the object of our undertaking, still appeared to us of a prodigious height; at its left, the rocks which we call its stairs, and some very superb pieces of snow, which by the dazzling of the sun appeared strikingly singular and beautiful.

It took us twenty minutes to traverse this platform; and this time appeared long to us, for fince the last voyage of Lques Balmat, it had been covered by two enormous avalanches of feracs, which fell from the Dome of Gouté; we were obliged to cross over these avalanches under the continual fear of being overtaken by others. I had however the pleasure of observing those feracs which we seldom have an opportunity of viewing near us. I measured some which were more than twelve feet every way; the bottom, or that part which had united with the rock was formed of white, translucid ice, and more compact than ordinary ice. The opposite side which had been originally the top, was still of snow, though a little hardened, and there is feen in the same block all the shades between these two extremes. We were surprised to find that several of these blocks had arrived there without being dissignred, and even that they had ever comethere, for the Dome of Gouté, from which they were detached is at a great distance, and the declivity is not very flanting: without doubt they had slided in the morning on

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I ha themi itretel the fnow which had been frozen and hardened by the cold of the night, and their own velocity had been very great.

From this platform we were an hour afcending a declivity of thirty-four degrees,

which brought us to the fecond platform where we were to fleep.

We had at first long and serious deliberations respecting the choice of the place we should fix the tent under which we were all to collect to encounter the cold of the night, of which the guides had formed to themfelves fo frightful an idea. Befides the cold we had two other dangers to guard againft, the one from above, the other from beneath: the bufiness was to choose a fituation which should screen us from the danger of the avalanches which might fall from above, likewife from that of crevices concealed by fuperficial fnow. The guides trembled at the thoughts of this fnow loaded with the weight of twenty men collected in a small space, and softened by the heat of their bodies melting and giving way all of a fudden, and fwallowing us all up in the middle of the night. A frightful crevice whose winding we had traced in coming to this platform, and which might have extended, for what we knew, to the place immediately under us, proved at least the possibility of such a supposition. However, we found at about one hundred and fifty yards from the entrance of the platform a place which appeared to us fecure from all those dangers. There they set about shovelling the snow away, and fixing the tent over the place they had made for it. In the abridged account I have related the indisposition my guides felt here from the rarity of the air.

After some moments of repose Marie Goutet and two others went on the Dome of Goute to look for the stones covered with glass bubbles, that I have described in the second volume, and brought back some very sine ones, and one among others very remarkable in its having sprinkled on its surface the bubbles of a colour analogous to the part of the corresponding stone, blackish or greenish upon the hornblende, and whitish on the selfpar; which proves clearly that they have been formed by a superficial susting of the rock, and of consequence that thunder has produced them; in fact, by what other means could this effect be produced on the surface of a rock surrounded by snow? The same guides afterwards went to examine the declivity we had to get up the next day. They returned satisfied with having sound covered with snow a crevice, which in the preceding journey had given them a good deal of trouble to get over; but the declivity by which we were to ascend appeared to them extremely abrupt, and formed of very hard and slippery snow, and I saw clearly by this account that they were in doubt

of my being able to get up it.

On mountains free from flow, and whose heights does not exceed one thousand or one thousand two hundred toises it is very pleasant to get in good time to a sleeping place; the coolness of the evening refreshes you after the fatigues of the day, and you sit down on the grass or on a rock, are amused in observing the gradations of the light, and the changes which almost always accompany the setting of the sun, and twilight.

But in high mountains covered with fnow the close of the day is extremely painful, one cannot tell where to place one's felf; if you fit still you are frozen, and fatigue joined to the rarity of the air deprives you of strength and courage, necessary to warm your-felf by exercise. This is what we felt in the situation we were now, to which we came about sour o'clock. We were all frozen with cold; and waiting with the greatest impatience till the tent was fixed; as soon as it was, we all got into it, and in a short time the babbling of the guides and the nausea of those who where sick, forced me to leave it.

I halfened supper as much as possible. Afterwards they had great difficulty in fixing themselves in such a manner as they might be able to pass the night; I was allowed to stretch myself in a corner; but as for the rest they could only sit down on the straw

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k all thefe come,ince, g on the between each other's legs; and the air corrupted by the respiration of twenty persons crowded into so small a space occasioned our passing the bad night of which I have spoken.

The next day we foon traverfed the fecond platform, at the entrance of which we had paffed the night; from thence we ascended to the third, which we likewise soon crossed, and in half an hour came to the great declivity, by which in drawing to the east, we got upon the rock which forms the left shoulder of the top of Mont Blanc.

At the beginning of this ascent I was out of breath by the rarity of the air; however by resting a moment every thirty or forty paces, but without sitting down so far recovered my breath, as to be able in about forty minutes to get to the entrance of the avalanche which had fallen the preceding night, and which we had heard from our tent.

There we all stopped for fome minutes in hopes that after having rested our lungs and legs, we should be able to get over the avalanche pretty quick and without resting to take breath, but in that we deceived ourselves, the fort of weariness which proceeds from the rarity of the air is absolutely insurmountable; when it is at its height, the most eminent peril will not make you move a step faster. But I insused fresh courage into my guides by repeatedly telling them that this place was really the least dangerous, be-

cause all the loose snow of the heights above us had already come away.

Beyond this avalanche the declivity became continually more floping, and on our left bordered on a frightful precipice; it was necessary to get over a pretty large opening, the passage of which was incommoded by a rock of ice, which forced us to the border of the declivity. The foremost guides had cut steps here and there on the hard snow as they went on; but as they had left the spaces too long it was necessary to take such long steps that one ran the risk of missing ones footing, and sliding without remedy to the bottom. At last, towards the top the thawed surface became thinner; then it broke under our feet, and underneath it eight or nine inches of crumbled snow, which rested on a second crust of hard snow, into which we sunk to the calves of our legs, after which we slided down the side of the precipice, to which we were only held by the upper crust, which thus found itself loaded with a great part of the weight of our bodies; and if it had broken we should infallibly have slided to the bottom; but I did not think of the danger, my resolution was taken, I determined to go on as long as my strength would enable me, and I had no other thought than that of advancing with a firm step.

It is faid when you walk on the border of a precipice you should not look at it, and is true to a certain point; but the following advice is the result of my long experience. Before you engage in a dangerous passage you should begin by contemplating the precipice, until you get quite familiar to it, and it has lost its force on the imagination, and you can look at it with a fort of indisference; meantime you should study the way you should go, and mark as you may say your steps: after which the danger is no more thought of, and you only think of following the prescribed way. But if you cannot bear the fight of the precipice and accustom yourself to it, give up the enterprize, for if the path be narrow, it is impossible to look where to place your feet without looking at the precipice at the same time: and this sight if taken unawares dazzles you, and may prove your destruction; this rule of conduct in danger appears to me applicable to

moral as well as natural cafes.

I employed there, and in other dangerous situations the manner of helping one's-self by the guides, which appears to me the surest, for him who employs them, and the least inconvenient for those who help him; it is to have a light but strong, stick, eight or ten seet long; two guides placed the one before and the other behind, keeping the stick by

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the fide of a precipice, the one guide at one end, and the other at the other, and your-felf in the middle, with this walking fence you support yourself as occasion requires; this neither incommodes nor tires the guides, and may serve to support themselves in case one of them should slip or fall into a crevice. It is in this attitude that the Cheva-lier Mechel has represented me in the large coloured plate that he had engraved from

our caravan in the middle of the furrounding ices.

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At length in two hours and a half, reckoning from the place where we flept, we attained the rock that I call the left shoulder of the second stairs of Mont Blanc. In this place there opened to my view an immense horizon and quite new, for the summit being at our right, nothing concealed from our view the whole of the Alps on the fide of Italy, which I had never before feen from fuch a great height; but I referve this detail for the following chapter. There I had the fatisfaction to fee myself certain of attaining the fummit, fince the remaining afcent was neither very floping nor dangerous. We here stopped to eat a bit, scated on the borders of this magnificent terrace; but the bread and meat we brought with us were frozen; yet the thermometer had never been hower than three degrees below the freezing point, and thefe aliments, that in and covered in a doffer carried on a man's back, ought to have been a little preferved from the cold by the heat of his body. I am perfuaded that on the plain in the fame degree of cold these aliments would not have been frozen, and very likely that there even a thermometer shut up in a doffer would not be lower than o; but in this rarised and conflantly renewed air, the bódies or fubstances impregnated with water undergo a very great evaporation, and on that account imbibe the cold more than the dry ball of a thermometer: at nine in the morning, the thermometer was at half a degree above o, and my hygrometer at fifty-nine. The naked rocks that we met there, and which form two forts of black and projecting ridges, which are very well feen from the borders of our lake, to the left of the highest summit of Mont Blanc, are of granite, here reduced to scattered fragments; there, in folid rocks divided by pretty near vertical fiflures, the direction of which is conformable to that which generally reigns in these mountains, that is to fay, from N. E. to S. W., and which in confequence I looked upon as beds.

The felipar which enters into the composition of these rocks is white bordering on grey, or on green, or on a reddish colour; it gives by the blow-pipe a glass, from which may be obtained globules of 0, 6, transparent, without colour but full of bubbles.

This felipar is sometimes pure, covered or even mixed with a grey substance verging on sea green; without brightness, earthy, brittle, stripped with a grey whiteness. This substance appears to be of an earthy steatite; it is difficult to get fragments of it free from felipar; those which I have been able to separate, have melted by the tube into green-glass, translucid and of an extremely fat aspect. They discolour on the sibres of sappare, and dissolve it with effervescence.

The whitish half transparent quartz, which enters into the composition of this granite, appears sattish on breaking; a fragment of a sifteenth of a line in length, by a thirtieth in thickness or of 0,067, on 0,033, sixt at the extremity of a loose thread of sappare, became quite round at the slame of a blow-pipe, in loosing a little of its transparence which under this volume appeared perfect, and formed in itself some bubbles in its interior. This quartz is then more suffile than rock crystal, in the proportion of 0,035

to 0,014.

These granites are frequently mixed with hornblende, sometimes blackish, sometimes

bordering on green.

There is also seen here chlorite often of a green colour, sometimes in nests, and even in thick masses. It is tender but not crumbly; of a very fine grain, and its small parts

feen through a microscope, appears like small blades very transfucid, of a clear green, but they have not the regularity of those of St. Gothard which I have described. This stollile, as well as the hornblende, appears to supply in these granites the place of mica,

which only shews itself in very small and scarce blades.

Some of these granites appear rotted, there are observed in them small cavities of an angular, irregular form full of a rusty brownish dust. In breaking these granites there is found in their interior parts small brown pyrites tarnished on the outside, but brilliant and of a very pale yellow inside, and whose fragments are attractable by the loadstone. It is from the mixture of these pyrites that these cavities are formed. My guides found some fragments of these same granites, in which are seen cubical pyrites of three or four lines in thickness, which on breaking appear very brilliant, and of a brassy high coloured yellow; they do not alt r on being exposed to the air.

On these rocks are also found some quartz with some veins and nests of delphinite or green school of Dauphine; it is but consusedly crystalized, but to be distinguished by its swelling under the blow-pipe, and the black and refractory scorize into which it changes.

In fome places these granites degenerate into irregular schissor rocks, formed of quartz and selfpar, without any mixture of mica, and whose beds are separated and covered with clay of a nut-brown ferruginous colour, and melts into a black glass.

In these same granite rocks are inclosed a layer of granitel, almost entirely composed of black and shining lamellar hornblende, and of grey felspar translucid, of the colour of

rufty iron at its furface.

To conclude, my guides found in these rocks a palaiopetre or primitive petrosilex of a grey colour bordering on green, translucid at a line thick and even to 1, 2; scaly or shelly on breaking, hard, interiorly mixed with spots of a deep green, which are scarcely visible but by a glass, and which appear to be of steatile; and also with some spots of pyrites, which in dissolving stain of a rusty colour the places near it. This

ftone in melting turns to a green glass like that of felspar.

After having refted and examined these rocks, I resumed my journey about nine o'clock. As I had measured from Chamcunie the heights of the parts of the mountain, I knew that I had not more than about one hundred and fifty toiles to go, and that by a declivity of not more than twenty-eight or twenty-nine degrees, on a firm and not flippery fnow, free from crevices, and distant from precipices, I therefore hoped to attain the fummit in lefs than three-quarters of an hour; but the rarity of the air prepared me difficulties greater than I could have foreseen I have observed in the abridged relation, that towards the latter end, I was obliged to take breath every fifteen or fixteen fleps; mostly standing supported on my stick, but obliged about every third time to sit down; this neceflity of refting was abfolutely infurmountable; I endeavoured to overcome it, my legs failed me, I felt a fwooning, and I was feized with a dazzling quite independent of the power of the light, as the double crape which covered my face perfectly forcened my eyes. As it was with extreme concern, that I thus faw the time pass that I had hoped to dedicate to the making of my experiments on the fummit, I made feveral attempts to shorten my rests; I endeavoured for example not to exert my full ftrength, and to ftop at every four or five fleps, but I gained nothing by it; I was obliged at the end of fifteen or fix een fleps to reft as long as if I had done it without intermiffion, what is remarkable is that I did not feel this great uneafiness till eight or ten feconds after I gave over walking. The only thing which did me good and increased my strength was the air of the north wind; when in ascending I had my face turned to that fide, and firongly inhaled the air coming from thence; I could without stopping go twenty-five or twenty-fix yards.

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The generality of these sensations felt by the twenty people of which our party was formed, and the details which I have given in my abridged account, cannot leave any doubt respecting the cause of these phenomena. They beside perfectly agree with what is known as to the necessity of the air, and even of an air of a certain degree of density,

for the prefervation of animals of a warm nature.

Pretty near the middle of this afcent we passed near two small rocks, projecting over the snow. "" highest of them had been lately shattered, and its fragments thrown over the fresh snow to the distance of several feet. And as afforcedly no body had been there to blow up this rock with powder, or break it with an iron bar, there can be no doubt but it was produced by thunder. Yet I could not discover any glassy bubble. In the abridged account I have said that it proceeded from its constituent parts being extremely refractory; but this is an error, for I have since then seen fragments from the rocks of the Dome of Gouté, which are exactly of the same nature of the one now in question, and which are covered with glassy bubbles. This difference proceeds rather from the greater or less violence of the stroke they have received, or of the less or greater moisture then contained in them. Among these scattered fragments were seen leaves of granite in masses more or less thick, whose great faces were pretty near parallel to each other.

The lower rock presents the form of an horizontal smooth table, its length from north to fouth fix feet six inches, and its breadth four feet from east to west. This table sinks into the snow from above or from the west; but from the lower side or from the east its border rises four feet eight inches six lines above the snow. It is a solid block without any visible separation. I carefully took its dimensions that it might be known here-

after if it should increase or diminish.

These rocks, situated near two thousand four hundred toises above the sea, are interesting on account of their being the highest of our globe examined by naturalists; Messes. Bouguer and Condamine had been on the Cordilleres to an equal and even some toises greater height than our rocks (two thousand four hundred and seventy toises): they did not understand stones, but as they say they have sent a great many cases full of specimens from the mountains on which their trigonometrical operations had conducted them, I should have been very desirous to have these specimens examined by judges.

The deceased Duke of Rochefoucault, a man as much distinguished for his knowledge as his virtues, and who has been the innocent victim to the troubles of a country for which he had made and would still have made the greatest facrifices, was willing at my request to examine these rocks with the greatest care and attention, either at the Jardin du Roi or at the Academy of sciences, of which he was a member, but he could neither

find them nor gain any intelligence of what was become of them.

The fearcity of specimens of rocks situated so high, and the consequences that might be drawn from their nature in different systems of geology, engage me to give a particu-

lar description.

They are granite in mass, where hornblende and steatite take the place of mica, which is there rare, a bright sun and a magnifying glass are necessary to be able to distinguish some white and bright scales; it is even doubtful if these brilliant particles, which it is

impossible to take off, are really mica.

Felfpar is the prevailing part of these granites; it evidently forms about the three fourths of their mass. Their crystals, pretty near parallelopepid, vary in size; some are seen an inch in length and six lines broad. They are of a dull white, feebly translucid, of little lustre, of the fort I call dry; they yield by the blow pipe a transparent glass, but with bubbles, of which may be formed balls of 0, 81, and of consequence suffible at 70 degrees of Wedgwood. On the silet of sappare the bubbles dissipate, and there remains a transparent

transparent milky glass, which subsides without penetrating or dissolving. These crystals of felspar appear here and there of a tarnished green, caused by a slight mixture of steatite which covers them.

The quartz which forms a little less than the fourth of the mass, is grey bordering on violet; uneven in breaking, brilliant in places, not scaly but conchoid. Its fusibility is

pretty near the same as that of other granitic quartz.

The hornblende, which forms too small a portion to be of much account, is black bordering on green; it shews some tendency to a scaly and brilliant form, but is oftenest twinkling and almost earthy. It suses into a black bright glass, cavernous in its interior, and which on the thread of sappare passes to a bottle brownish green, changes colour afterwards, and dissolves with some effervescence which proves a mixture of magnetical earth.

The earthy steatite likewise forms a very small part of those granites.

All these granites have their natural divisions covered with a green or black crust. This is an earth resembling the chlorite, of a blackish green, shining a little at its exterior surface, but of a clearer and more earthy green in the fractures, brittle, the streak greyish green, turning brown under the blow-pipe, then giving a button = 0, 3, or sufficient to the stream of the stream of the stream of the little unequal, and of a little tarnished or iron melted colour; and not only this button buttle the parts that the power of the slame has made brown, are very strongly attractable by the loadstone. A small fragment tried on the silet of sappare, infiltrates immediately like ink into the pores, then turns to a tarnished brown, and at length entirely loses its colour, but without appearance of dissolution.

The green cement which covers other parts of this granite in their spontaneous divisions is less obscure, shining enough, translucid, soft and a little greafy to the touch, brittle and easily streaked into grey, changing by the blow pipe into a translucid glass, which becomes transparent on the filet of sappare, and dissolves it, but without ebullition. This cement appears to be of the nature of steatite; I was not able to procure any pieces

large enough to measure its fusibility.

The latter part of the afcent between thefe little rocks and the fummit was, as might be supposed, the most difficult for the respiration; but at length I gained the long wished for point. As during the two hours this painful ascention cost me, I always had under my eyes almost every thing to be feen from the fummit, my arrival on it was not attended with that furprise one might imagine. The greatest pleasure I felt was that of feeing my great uneafiness at an end; for the length of this struggle, the recollection of the still poignant fensations the difficulties this victory had cost me, caused me a great deal of irritation. The moment I had got to the highest top of the snow with which this tummit is crowned, I trod upon it with a fort of anger rather than felt a fentiment of pleafure. Besides my object was not solely the getting to the top; I wanted there to make observations and experiments which would make this undertaking valuable; and I was very much afraid I could make but a very small part of what I had proposed; for I had already found even on the platform where we flept, that all experiments attended with care, caused satigue in this rarified air, and that because without thought you hold your breath; and as it is necessary to supply the rarity of the air by the frequency of respiration, this suspension caused a sensible uneasiness, and I have been under the necessity of relling and taking breath after having observed an instrument of any fort, as one should do after having got up a fteep hill. Still the fight of the mountains gave me a fenfible fatisfaction, of which a more particular account will be feen in the following chapter.

But before the contemplation of those distant objects I should fay a word of the form

of this fummit, and finish the description of the rocks nearest to it.

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felfpar. It is ur vol. The top of Mont Blanc is not a plain but a fort of lengthened ridge, directed from east to west, pretty near horizontal in its highest part, and lowering at the two extremities in angles of from twenty-eight to thirty degrees. This ridge is so uneven towards its summit, that two persons cannot walk a breast; but it widens and rounds in descending to the eastern side, and takes towards the west the form of a projecting roof, directed to the north. All this summit is entirely covered with snow; not a portion of rock to be seen till you go seventy or eighty toises lower down.

Of the two fronts of the ridge, that to the north is of the most rapid descent, and becomes afterwards still more so, and terminates by joining frightful precipices. To the south on the contrary this slant is gentle, and lower down forms a cradle, rising itself in a contrary way to the south, where it forms above the Allée Blanche a pretty high point, under which is a projecting roof of snow, and under this roof are the rocks which I saw from the heights of Cramont, and took for the summit because they concealed the real summit covered with snow. This projection to the south is the cause that when the summit of Mont Blanc is viewed in profile from the eastern or western side, for example, from St. Bernard or Lyons, there is seen beneath it a fort of hook turned upwards towards the south which conceals it.

Whilft I was employed in making these observations, Jaques Balmat offered to look for some bits of those rocks which I have just mentioned, and of which the turned up point above the Allée Blanche is formed I eagerly embraced his proposal. As he had been well rested and felt himself hearty, he set out very eagerly in a run, but he soon found his breath fail, and to recover it was obliged to extend himself at full length on the snow, however he recovered, and with a steady pace resumed his intention and brought me three stones of the following fort.

1. Some granites perfectly like those defore described.

2. Some fienites or granitelles, that is to fay, rocks composed of layers of black horn-blende and white felipar, also laminar, but both in such small quantities that I may as well give these rocks the name of trapp, after the definition that I have before given.

3. A primitive petrofilex or palaiopetre of a grey pearl hue, translucid at the thickness of two thirds of a line, of a scaly fracture in great and small scales, hard enough to produce sparks of fire, but yet yielding into grey strakes by a strong point of steel. With the blow pipe may be formed globules of 0.45; which indicates the sufficiently of the gross matter at 126 or 130 of Wedgwood. This is a grey half transparent glass, with bubbles, which on the silet of sappare gains in transparency and subsides, but without penetrating or dissolving, and even without freeing itself entirely from its bubbles.

This palacopetre encloses veins from one to three lines in breadth, which cross each other under different angles, and small nests of leek-green hornblende, confusedly cristal-

lized, or in lamina feldom strait, or in moderate fized fibres.

The highest accessible rocks to the north and under the summit, are those which are strewed with glass bubbles, and of which I have for the first time made mention in the

fecond volume of these travels, but which merit a more exact description.

opaque, of a laminar fracture, but not very diffinct, and of hornblende of a greenish black, laminar and brilliant in cristals, often by themselves, although often of undetermined forms, of the size of from one to two lines. The suffillity of this selspar is the same as that I have described; and that of this hornblende is of 90 degrees of Wedgwood, answering to a ball of the diameter of c.6.

2. The fame granitelle, but in which hornblende predominates, having but very little

felspar. This stone in some places takes a schistose texture.

It is understood that between these two numbers may be found intermediate varieties.

3. Schillus of a greenith grey, tender, composed of cornéenne, or according to Werner of schiltose hornblende, in some places strait, in others waving, something brilliant on their greatest faces; and of white selspar in very small blades intermixed with the cornéenne.

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This schistus is often sound adhering to Nos. 1 and 2. It is sussible into globules of a clear bottle green glass colour, mixed with white spots of the diameter of 0.7, which indicates the 8.1t degree. It is principally on this schistus that the glass bubbles are seen; some are of a pretty clear green, and others of a dark bottle green. But in it is also sound pure black hornblende, and there the bubbles are black. They are also found though more rarely in the white selspar, and there they are whiter and a little more translucid than the stone from which they have been listed up, by the caloric detached by the thunder.

Geological Obfervations.

The first thing that struck me in the view of the whole of the high summits under my eyes, from the top of the highest among them, is the fort of diforder which reigns in their disposal.

When from our plains, or even from the tops of the fummits adjacent to Mont Dlanc, for example, from Brevent or Cramont, one confiders the chain of which Mont Blanc forms a part, it appears that all these colosies are ranged in a line; and from this appearance is called a chain. But when you take a bird's eye view of them, the illusive appearance vanishes entirely. In fact, the mountains, particularly those to the north of Mont Blanc, in Savoy and in Swisserland, appear sufficiently joined to form a fort of chain. But the primitive ones do not shew themselves under that appearance; they seem distributed in great masses or in groupes of a varied and fanciful form detached from each other, or at least appear to be only joined by chance without any regularity.

Thus to the east the Aiguilles of Chamouni, of Courtes, of Tacul, the tops of which mixed with rocks and snow, and separated by glaciers, offer the most magnificent spectacle, form a triangular group almost detached from Mont Blanc, and only united by its base.

In like manner to the fouth-west, the Mont Zuc, the Rogne, and the other primitive mountains on the North of the top of the Alleé Blanche, form also a fort of triangular group, separated from Mont Blanc by the valley of the glacier of Miage; and which is likewise united only to Mont Blanc by the base of the mountains which close this glacier to the north.

And laftly, Mont Blanc itself forms an almost insulated mass, the different parts of which are not in the same line, and do not feem to have any agreement in situation with the two other groups.

In taking a Itill further view, I was confirmed in the same observation; the primitive mountains of Italy and Swisserland which I was near enough to view, only presented to my sight groups or masses separated without order or regular form. I did not see the appearance of chains except in those whose distance was too great for the sight to take in.

This observation excludes all idea of a regular formation, or at least it must be traced back to an epoch anterior to that which has given them their present form.

Yet notwithstanding this irregularity in the forms and distributions of the great masses, I observed some resemblances, as positive as important in the structure of their parts. All that I could distinctly see, appeared to me to be composed of great vertical

leaves, and the generality of these in a like direction, pretty nearly from north-east to south-west.

I had above all a great pleasure in observing this structure in the Aiguille du Midi. In Chapter XVIII. of the second volume is seen with what trouble and danger I attempted to make the tour of the base of this Aiguille, to study its form; and with what regret I found my eager curiosity opposed by inaccessible walls of granite which surround its base. Here I saw it under my feet, and described at my ease all its parts.

The second day of the journey, on arriving at the border of the platform on which I passed the night, I saw to the north-east a little below me some broken pinnacles; I asked Pierre Balmat what they were; and when he informed me what I presently discovered myself, that it was the summit of the Aiguille du Midi, I selt a satisfaction

difficult to describe.

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tical ives, In continuing to ascend I did not lose fight of it, and I am certain that like the A.; guilles of Blaitiers it is entirely composed of magnificent plates of granite, perpendicular to the horizon and in a direction from north-east to south-west. Three of these plates separated from each other form the summit, and similar ones gradually lessening as they rise, form the south front at the side of the Col du Geant.

I believe then it was an illusion when in observing from bottom to top, it appeared to me to be composed of plates applied round an axis like the leaves of an artichoke; or at least if there are some leaves disposed in this manner, they are only the lowest ones; for in diving as I may say into its interior, I saw all its leaves perfectly parallel to

each other.

I have given the details of this fummit as an example; all those which I could fee distinctly appeared to me pretty near in the same form and direction. If there were some exceptions they were local and of little extent.

This great phenomenon explains itself, as I hope to shew in the theory, by the refour-

lement or eruption which has raifed those beds originally horizontal.

But another question which I ardently desired to resolve, is to know if these great plates preserve the same nature from their bases, which I had long known, to their summits, which I had not yet seen so near. I was fully satisfied; I found that the summit of these peeks, as well those which we laid hold of, and of which a description has been given in the foregoing chapter, as those which we found near enough to examine distinctly the substances of which they are formed, are without doubt like their bases, of granite, granitelle, of veined granite, and other stones of the same class.

This circumstance is so important for the theory, that although I might have observed it on mountains less high, and that it appeared most probable for the others, it gave me

extreme fatisfaction to make it general by a direct observation.

In effect this proves the remarkable property of mountains in vertical beds, which is that their nature is the same from their base to their summit, be the height of their summits what it may. On the contrary, in those whose beds are horizontal, or at least nearly so, the nature of the same vertical part of the mountain is seen to change in proportion to its height. The Buet, for example, ress on a primitive base, whilst its summit is secondary. The Furela del Bosco has its bottom of hard veined granite with the grain large; and in proportion as one gets higher these granites are seen to degenerate into soliated rocks, of a quite different nature. The same observation is verified as we shall see, on Mont Rose and Mont Cervin.

This difference holds good with the difference of the cause which has given to these

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different forts of mountains the fituation and form they now have.

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In those which have vertical trenches, each trench is one and the same bed, in the proper sense of this word, and not the production of any accidental sissues, as some naturalists have pretended.

These beds were originally horizontal, and have only been raised by a revolution of our globe: it is then very natural that each of them may have preserved to its utmost

height the fame nature it had from its first formation.

On the contrary, the mountains divided into horizontal trenches have only been raifed by an accumulation of different beds or layers, composed of crystallizations, or deposits the nature of which varied according to the diversity of matter contained in the waters

where they have been formed.

From this theory it follows, that the central rocks of a mass all composed of vertical beds, such as Mont Blanc, ought to have been originally buried in ground of a very great depth. In effect, if it is supposed either by a rising up, as I think; or by the rupture of the crust of the old earth, as M. De Luc believes, that these beds, horizontal in the beginning, are become vertical; more, if it is supposed that the bottom of a valley, that of Chamouni for instance, be the ancient surface of the coat, it will follow from hence that the horizontal distance of the valley of Chamouni to a part which answers to the summit of Mont Blanc, should be pretty near the measure of the thickness of the crust which has been russed up or broken, and that in consequence the summit of Mont Blanc, whose actual height is about a league above the surface of our globe, had been originally buried two leagues below the surface.

It should not be then in the subterraneous depths of the mines of Poland or Northumberland, but on the summits of mountains, in vertical beds, that it is necessary to study

the nature of the primitive world, at least as far as we could attain.

This idea has given, in my mind, a great interest to the specimens that I have taken from the highest rocks of Mont Blanc, and has engaged me to describe them with great care; I always regard them with new pleasure; I study them, I interrogate them; and methinks that if they could answer my questions, they would unveil to me all the mys-

teries of the formation and revolutions of our globe.

I was still more confirmed in those ideas when, in considering the rocks nearest to the summit, I recollected that the greatest number of them contained no mica, and that the others contained only scales of it, so scarce and small, that by none that I broke off could I determine their reality. For it is a fact, that the matter torn assume by the subterraneous fires at the bottom of the earth to a great depth, very rarely contains mica. M. de Dolomieu met only one micaceous rock in the matter vomited by Mount Etna, and I have not seen any in the volcanos of Auvergne or Brisgaw; yet I have seen some in those of Vesuvius, as has M. Nose in the lavas of the Lower Rhine; but it is because the subterraneous fires do not always take at the same depth the substances they throw out: it is sufficient for my observation, that the mica is much scarcer in the bowels of the earth than at the surface.

It would have been natural to think that the highest summits of the Alps should be found near their centre, or at least towards the middle of the breadth of the mass of primitive mountains; yet it is not so. From the summit of Mont Blanc is seen that to the south; on the side of Italy, there are many more high summits than to the north, on the Savoy side; so that this high summit is found near the northern border of the whole of the primitive mountains. So also is the view siner and more interesting on the side of Italy, for the secondary mountains to the north, terminated by the blue and monotonous line of the Jura, present neither variety nor grandeur; and our plains, even

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our lake, feen obliquely through the vapours of the horizon, prefent only feeble tints and few distinct objects. On the contrary, on the southern side, the horizon concealed by the high summits, varied in their groups and forms, mixed with rocks and snows, and interfected with green valleys, presents a whole equally singular and magnificent. But above all, as I have already said, the aiguilles and the glaciers of all the environs of Mont Blanc, formed in my mind, all at once, the most ravishing and instructive spectacle.

In fine, from this fine observatory I seized at one glance, or at least without changing situation, the whole of the grand phenomenon that I had before seen in detail, that of the raised beds of the mountains at the side of Mont Blanc, and the high summits of its neighbourhood. Such, towards the north, were the mountains of Reposoir, those of Passy, of Servoz, one Buet; those to the south, the Col-Ferret, Great St. Bernard, and then the chain of Cramont, the summit of which is not seen, as I have already said, from the summit of Mont Blanc, but of which the after-part is seen to border the Allée-Blanche, and then to join itself to the Tarentaise mountains.

Farther on, at the other fide of these sharp-pointed chains against Mont Blanc, are seen some whose edges are turned the other way, according to the law I have made known in the first volume, and all these phenomena perfectly agree with the system of resoulement or eruption, of which in other places there are so many proofs.

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I have thus happily finished these observations. I began with them under the apprehension that the sudden coming of a cloud, so frequent in those high places, might have enveloped me, and deprived me of the power of accomplishing what I had most at heart.

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JOURNEY

TO THE

SUMMIT OF MONT PERDU, THE HIGHEST MOUNTAIN OF THE PYRENESS,

BY L. RAMOND,

Member of the National Institute; and read in that Society the 19 Floreal, an 11.

I HAD convinced myself, by various attempts to reach the summit of Mont Perdu, that it was only by its eastern fide that it could be accomplished; and I was persuaded that even its peak might be ascended by the way of the defile of Fanlo, unless any insurmountable obstacle lay concealed from me, in the space which separates the

It was therefore towards this doubtful intervening space that all my attention and thoughts were directed, and I had more than once or twice urged my guides to explore it; two of whom at length, last summer, determined to gratify me, and I marked their route for them; but having reached the foot of the mountain, they thought proper to go from my instructions, and to trust to the guidance of a Spanish shepherd, less acquainted than themselves with Mont Perdu; and they had nearly paid very dear for so doing. This journey was indeed perilous, being obliged to pass a night (so ill had they contrived for themselves) beneath the glacier of the peak, without shelter, without sire, and almost without sood. The second day, however, they conquered the last difficulties, and reached the summit, but so worn out, that they had scarcely ability to explore it; and so consusedly did the man who came to me with the tidings of their success describe the places, that I was more than once, in the course of his narrative, apprehensive they had totally failed in their object: one circumstance was evident enough, which was, that the path they took was not the proper one.

Be this as it may, I inflantly determined upon my departure, refolving to follow scrupulously the way I had by my eye traced out to myself, by which I did not doubt I should steer clear of those dangers to which my guides had been exposed; nor was I disappointed: I had conceived the true rout, and found myself upon the fummit of Mont Perdu, less exhausted by the labour of the journey than I was by exploring its base. I took my departure from Barège the 9th of August 1802, and having gained the valley of Gidre and Estaubé, I took my first station on the height of Port Penide, the exact elevation of which it was very desirable to ascertain, and by the observation of the barometer I found it to be one thousand two hundred and ninety-one toises; but the Port du Penide is by no means the highest or most dissilicult passage of this portion of the

Pyrenees.

This calculation afforded me the opportunity of afcertaining with precision the extent of the lesser chain of permanent snows, which terminated at the absolute elevation of

one thousand two hundred and fifty toises.

I had a good spirit-level, which furnished me also with a very interesting result: I proved by it that the desile of Pinieni, from which I was separated by the valley of Estaubé, was precisely of the same elevation with the Port de Penide, and likewise with the desile of Fanlo, divided from me by the valley of Béouse. This conformity of e eva-

tion between three corresponding and alike disposed points, is a discovery by no means

immaterial to a geological history of Mont Penide.

But in vain was our afcent to the defile of Fenlo: it was indispensable we should retrograde; we were to descend considerably ere we could re-ascend. We directed ourfelves obliquely towards the enormous walls which bear up the lake of Mont Perdu and its terrace, which brought us to the point from whence the torrent precipitates itself, in

a frightful cataract, to the bottom of the valley of Béoufe.

Here we found ourfelves upon a fmall well turfed, but very inclining platform; and here too we met with a flock of fleep under the guidance of a fleepherd, a species of savage, unal 'c to understand us even in his native language. Mont Perdu was suspended over his head, yet was he as little acquainted with it as if it had conflituted a part of the Andes. He had, however, a knowledge of the defile of Fanlo, here defigned under the name of Nifele, and he engaged to conduct us to it the next day. We, in confequence, passed the night with him in the open air, amidst the vapour of the cataracts, and the angry portents of a threatening tempest on every side. I took the height of this flation, and found the mean between two observations to be one thousand and three

Our first labour in the morning was to cross the torrent which discharges itself from the lake; its depth, its rapidity, and particularly the coldness of the water, rendered this effort of some difficulty. The water caused a rife of two degrees only in the ther-

mometer above the freezing point.

From this place until we reached the fummit of the defile of Nifcle, we experienced no other difficulty than what was occasioned by the extreme inclining of the slopes. I afcertained the height of the defile to be exactly upon a level with that of the Penide, as it is also with the border of the terrace near the lake of Mont Perdu; the lake itself is fornewhat higher. I found, on trial-its absolute elevation to be something more than thirteen hundred toiles. Here then we have four excavations of equal form and height, viz. the valley of the lake, the defile of Niccle, and those of Pimene and Penide; which I confider as the remains of an ancient valley, hollowed by the currents, after the deflruction of the beds of Mont Perdu, and possibly before their emersion; a valley which afterwards may have been transversely cut by the great rents which now actually form the vallies of Béoufe, d'Effaulte, and Gavarmi. Hitherto I had proceeded upon affured grounds; I have already described what is fingular upon this secondary foil, composed of irregular beds thrown up by the accidents of nature, the receptacles alternately of marbles, breecia, limetione: fome compact, and mingled with flint; others gross, and more or less mixed with clay and fand, and all sprinkled with zoophytes and testaceous fragments. I now found myfelf upon the continuations which conflitute the fumnits of Mont Perdu, the foil of which, it was evident to me, had never changed either its pofition or nature. I had never before been in a fituation fo convenient, correctly to notice its fructure. The fide of the mountain which prefented itself to me, that commands the defile to the east, arose to a perfect peak, so that the view I had of it was completely transversal, and perfectly characteristic of the position of the beds which formed the ridges of the mountain 1 was about to climb.

The whole of these beds, allowance being made for their windings, incline generally fo much to the north, that the greatest part of them hardly vary from a vertical fitnation, and have a direction very visibly parallel with the general direction of the chain; a circumflance not otherwife to be explained or accounted for than from fome violent convulsion of nature; and it is not to be doubted that this irruption has taken place under the very waters, which have removed these beds, for their upper trenches are co-

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vered with thick layers of shelly free-stone, inclining rather to the northern horizon, and which differs in nothing besides from the free-stone found in the beds.

What I had the opportunity of feeing upon the mountain of Niscle, I was about once ruore to explore on the summit of Mont Perdu, but in portions, and in detail, surrounded by the snows and ice, and embosomed midst the disorder and ruins of nature, where it is hardly possible to discern the order and structure of these irregular interwoven shelves.

The first stages to the ascent of Mont Perdu present themselves to us to the west of the desile of Niscle, and they present themselves with an abruptness and grandeur which announce the avenues to its summit. Four or five terraces piled one upon another form as many slights of steps, covered in part either with snow or fragments, which tend not a little to facilitate the access to these otherwise inaccessible walls. The sirst of these fragments are blocks of more than ordinary size, and apparently belong to the chain of the parasite bed of free-stone which copes the mountain of Niscle. It must be noticed, I apply the name of free-stone to those gravelly calces, of which fand constitutes the most apparent part. Testaceous fragments are found in those free-stones and with them fragments of a calcareous schissus, strongly polluted with clay, and spread over with a small extended polypus, moderately compressed, sometimes ramified, its surface pierced with simple pores, but remarkable for a small projecting belt which surrounds them.

I very shortly passed beyond these blocks, and continued my rout, ascending obliquely from the north-east to the south west, that is to say, in a direction which cut nearly in a right angle the general direction of the ridges, and soon reached the ruins which belong to the continuation of the beds of which even the mass or body of the mountain of Niscle is formed. Here I recognized the compact stone of Marboré, black or grey within, but soon whitening when exposed to the air, and spreading itself in a spontaneous manner in small irregularly angled fragments. It is most generally fetid, but in no region did I experience it so much so as in this; the very treading it was sufficient to intest the air with an insuscrable smell and a nausea, bearing no possible relation to that caused by percussion in the common hepatic and bituninous stones.

It took us near an hour to cross these fragments, or rather these wrecks, and we were much overpowered in this part of our journey by the efforts required as well to climb the excessive flanting declivities, as to struggle incessantly against the loose earth, tending invariably to the precipice. At length we found ourselves upon the upper terrace, and on a range of rocks, which at the first forms a narrow ridge, but widens by degrees, and becoming safer, brings us to a fort of valley where the ices begin which encircle the peak.

In the bare and uncovered part of this extended ridge I noticed fome large pieces of a compact calcareous blackish stone, crouded with great lumps of silex of the same colour; they slightly inclined from the vertical to the south, and follow the same direction with the ridge and chain. It is a repetition of beds of the same nature I have noticed in the Porte de Penide, Pimene, and elsewhere. Here, as there, they appear to be of the number of those whose direction is most evident. They were distinguishable by me on the mountain of Niscle, yet in my view, where this intrenchment widens itself from the base to the funnit of its westerly side. The kidneys of silex are of larger volume there than at Ports de Penide, and are at the same time exceedingly irregular; though I sound one sigured like an hexadrical oblique prism, which singular specimen I have deposited in Mr. Hauy's collection; had I met with it in the very heart of the rock, I should have been tempted to examine the direct work of crystallization, but it was of the number of those fragments spread over the surface of this ground; and as all the kidneys with vol. IV.

which these shound, are shattered in every sense by straight planes, the natural effect of retiring waters; I am warranted in the conjecture, that this prism is a detached portion of a more considerable kidney, in which the sissues had accidentally met under

the angles, which quartz particles have an incessant tendency to form.

At Port Penide there are many shells contained in this stone; here I did not perceive any, but it is probable some may be found; besides, I have met with layers of a calcareous stone in these beds, very argillactous, and much mixed with sand, which contained fo large a quantity of nummularia, as gave it an appearance of having been almost entirely composed of them. These beds soon slip under the ices, and become no longer vifible. We now approached the borders of these glaciers, which have here their origin, and consequently but of very gentle declivity. Nevertheless, we found the crossing of them difagreeable enough; fometimes we found the furface hard and flippery, at others we funk up to the knees in the recent fnows, fallen upon the fummits in the month of Beneath this fnow too, in our treadings, we were fensible of rents, in which we ran the risk every instant, of being lost. The exposed clests also intercepted our pasfage, and we had nearly been altogether stopped, at two hundred metres * below the fummit, by one of them, which extended transversly from the origin of the glacier, to the steep of the valley of Béousse. It was but three days before, that my guides had commodiously passed this cleft, by a bridge of snow, which was now dissolved; and which it was now our business to effectuate by leaping, which we succeeded in, and thereby conquered the last obstacle. I measured the depth of the cleft, and found it forty feet; and as the place where we croffed, corresponded with the convexity of the mountain; it must evidently have been the place where the ice was of the least thickness.

From thence I beheld the fummit which had hitherto been constantly concealed from me, by the position of the declivities over which I had passed. It presented itself in the form of an obtuse cone, clothed in spotless, resplendent snow; the sun shone with uncommon pureness and brilliancy; but its disk was shorn of its rays, and the sky appeared of a deep blue, and so strongly shaded with green, that even the guides were struck with the strangeness of its aspect. The first tint has been observed on all the high mountains; but there is no example of the second, and I am myself totally ignorant, to what this singular op-

tical illusion may be attributed.

At a quarter past eleven, I reached the summit, and, at length, had the gratification of contemplating, at my feet, the whole of the Pyrences, and instantly set to work with my instruments. The wind blew very boisterous from the W.S.W.; which threw difficulty in the way of my operation. I marked the state of both the barometer and the thermometer at noon. M. Dangos made a correspondent observation at Tarbes, with the instruments he took with him to Mount Etna; which have been carefully compared with mine. My barometer placed upon the creft of the cap of fnow, after due correction, flood at 18i. 11.14l.—at Tarbes it was found at the fame time, to fland at 27i. 1.47l. The difference of logarithms then give one thousand five hundred and fifty toises, for the vertical height of the measured column. On the other hand, the thermometer at Tarbes stood at 20° 5'-by Reamur's scale, and at hie summit of the Peak, at 5° 5' by the fame scale; which leaves to be added, agreeably to Mr. Trembley's formula, 12.11 toiles, and determines the height of the column to be 1562.11 toiles-Now Vidal's trigonometrical operations fix the elevation of Mont Perdu at one thousand five hundred and ninety-nine toiles beyond that of Tarbes; which makes a difference of at least 37 toiles, or 1/1/2 of the measured column. Mr. Laplace's formula augments this

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[·] A metre is rather more than a yard.

difference, more than double; and fo does Mr. Deluc's, but Schuckburgh's correction of the latter brings the refult very exact to the formula of the former.

It is my intention to examine more carefully this observation, when I give an account of the whole of my barometrical observations; at present I shall content myself with obferving that the wind was exceedingly tempeltuous, and blew from the fouthern region; and the fly around me very portentous of florm; and that all my observations, made under fimilar circumstances, have ever been short of the heights of the places I would measure. I shall further observe that the correction of temperature, which has already been so often hazarded, must not here be consided in. Local circumstances, infinitely varied, most certainly variously influenced every part of the fame column of air it was permitted me to examine. In effect, if the thermometer, placed by the fide of the barometer, on the lap of fnow, and at four feet above the furface, announced 5° 5' of heat, the fame thermometer brought down to the furface of the fnow fell to 2°, by reason of the absorbent nature of the heat, which occasioned a rapid evaporation of the surface. At the fame time another thermometer, placed likewise in the shade, at four feet from the furface, but upon the fouthern face of the peak, which the fnows had left, indicated + 10°, and this fame thermometer, placed on a level with the furface, and exposed to the fun, role to + 18.25. Finally, I must remark, and that too as a very fingular and fortunate circumstance, that Mont Perdu, and the Defile of the Giant, (Col du Geant,) where Sausfure made such a series of valuable observations, we found to be precisely of the fame height, fince the trigonometrical observations give to each one thousand feven hundred and fixty-three toifes, of actual elevation; for the mercury retained its fituation at the fame point in both these elevated spots; and besides the barometrical calculation of heights furnished results to Mr. Saussure so far below his geometrical proofs, that this illustrious naturalist has judged it proper to relinquish them altogether, notwithstanding they were grounded upon eighty-five observations, made within the course of fifteen days.

The peak is covered with fnow from the great glacier to the fummit, but the thickness of the snow gradually diminishes, and becomes very inconsiderable towards the top, by reason that its trenched form does not admit of an accumulation of them; here indeed they did not appear to me more than three metres in depth; their confishence is both thin and light, and it is but flightly they incorporate themselves with the extremity of the ice; while at the fame time the thaws here are of too short a duration to impregnate them with water, and the fmall quantity which gathers during the fine days of fummer runs quickly off by two outlets; but on the northern declivity these snows take, by degrees, an extraordinary confiftence, and quickly transform themselves into a vait glacier, which descends to the border of the lake, from a vertical height of eight

hundred metres.

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Contrary to this, on the fouth of the peak the foil was distinguishable, a circumstance to be attributed less to the force or action of the heat, than to the extreme precipitancy The snows cannot here support themselves, but are continually falling from the fummit of the mountain, on a defcent fituated fix or feven hundred metres beneath, and these form an ice considerable enough to resist the direct and reverberated heat to which this fituation exposes it.

The uncovered part of the funmit presented to my view no entire rock, no regular bed; it appeared only a mass of ruins, all of the same species of stone viz. a compact, calcareous, black, and fetid stone, which infinuates, or inter-twines itself into the beds of fand-stone and shell lime-stone. I examined it here with an attention, proportioned to the importance its fituation gave it. It is of a fine grain; a species of marble, composed almost entirely of carbonated lime, without any mixture of argil, yet you may discover, by the aid of a microscope, in the residue left by the nitrous acid, after the diffolution of the calcareous part, a quantity of very fine quartzofe fand. This ftone, particularly the interior of it, is decidedly black; but its blackness quickly goes off, when exposed either to the fire or air, though it will refist acids. I had fancied I difcovered in it the fetid principle: it totally left it during its diffolving, without the carbonic gaz contracting the fmell in its evaporation. Mr. Vauquelin was eager to afford me his affiftance, more closely to examine the properties of this stone. He discovered in it, as I did, not only a naufeous but a cadaverous fmell, unfolded by trituration; he found no argil in it, but fome filiceous particles, evidently belonging to the fand; which, as I have already mentioned, is found in its composition. The black residue is a composition of fand, carbon and iron; the two latter substances have the appearance of being intimately combined with the carbonate of lime. The carbon conflituted not more than a 35th part of the portion of the stone he made his experiment upon: with respect to the fetid principle, he concludes it to be produced by a fubstance of the nature of gaz, which evaporates in the pulverifation and diffolution of the stone. Perhaps it exists in the carbonic acid, but it marks its properties. Further, the analogy of this smell with that is distinguishable in certain black marbles, in which he has afterwards discovered a bitumen incontestably of animal nature, inclines him to believe that it has here no other origin.

This last conjecture is assuredly well supported by the marvellous destruction of marine animals, which took place at the first formation of these mountains. Neither is this cadaverous fetidity peculiar to the beds of marble there met with; it is every where attendant on the carbonate of lime, and is discoverable by breaking the free-stone itself, of which the carbonate principle is the most inconsiderable part; as fand is discovered even in marbles, where we have the least reason to expect its presence. All the masses are a mixed affemblage of materials, of a correspondent nature; fand, fetid carbonated lime, clay, shells, affociated in all possible proportions, the sport of particular accidents, modifying throughout the influence of general causes; such are the elements of all these beds, and veins, which, with fo much feeming caprice, replace and fucceed each other with fo much irregularity. If, in the various fragments that I have collected on the fummit, I have not observed organized fragments, their presence is not less attested by the fetidity refulting from the mixture of their fofter parts, than in the neighbouring beds by the confervation of their skeletons. It is not improbable, but by a very diligent examination fome veftiges may be discovered, as we observe here and there in beds of the same nature on Mont Pinede: but flone of this compact quality ordinarily contains very few organic fragments; and we find the quantity in all the beds, of which these mountains are composed, is constantly proportioned to the sand or clay contained in them; but the beds of shells are not distant; they encircle every where the veins with a compact calx; I have met with them a little below the fummit; and they fliew themfelves on every face of the peak. These extendings are perceptible in all the mountains, ranged on the same inineralogical parallel; and if among all these collateral beds, vertically arranged, the preeminence is given to beds of compact calx, which, nevertheless, constitute the smallest portion of their composition, it is because the beds of this order are superior in durability to brittle free-stone and decayed marks.

From the top of Mont Perdu the eye embraces at once the whole fystem of mountains, in aspect resembling each other, and recognises the same constitution in all that rise above the ordinary heights. The system is an extended series of summits, the beds

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It this v riend of which arrange themselves upon one and the same line, in a parallel direction with the chain, dividing the immense horizon in two parts, as different in their levels, as the mountains which command them are distinct in form.

To the north, the primitive mountains, which constitute the axis of the chain, lift up their heads. Their sharp and rugged summits closely encircle and form a belt of more than four myriametres (leagues) of transversal thickness, whose elevation totally intercepts the view of the French plains: so insensibly progressive is their sinking on this side, that this vast belt composes itself of seven or eight gradations of heights, gradually lefening, so that the south peak of Bagneres, whose station is in the last visible range, is only sive hundred metres below Mont Perdu.

To the fouth, the view is quite different; here they appear to fink on a fudden. A precipice presents itself of from one thousand to one thousand one hundred metres; the bottom of which constitutes the summit of the highest mountains in Spain; none of which attain to two thousand sive hundred metres of absolute elevation, and quickly degenerates into low round topped hills, beyond which opens the immense perspective of the plains of Arragon.

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But what more particularly attracted my attention was this meridional belt of the Pyrenees, fo nicely divided into two distinct parts. The neighbouring plains opened to my view, the long ridges, and opening valleys which ordinarily form the calcareous fides on the extremities of great chains. The belt, on the contrary, attached to Mont Perdu, and which is evidently an appendant of it, preserves the grotesque appearance which characterizes every appendage of this fingular mountain. It is a vast extended platform, or terrace, the furface of which, viewed from this elevation, feems nearly level. Some finall protuberances picture fo many little and gently rifing hills, feparating fome large, but not deep valleys; but in the midft of thefe fuperficial inequalities, four or five enormous clefts open their ponderous jaws, the walls of which are extremely vertical. They diverge in their openings, from the base of the peak, and extend to the boundaries of the platform; the protuberances and valleys of which they indifferently divide, as they divide themselves from their very foundations. They absorb also the waters, and thick forests lye concealed at their bottoms. These clests are, in appearance, so recently formed, that one would imagine them the work of yesterday, and have so exactly preferved their sharp and returning angles, their projections, and indentings, the windings of their divisions, and the undulations of their summits, as to induce a belief they only waited a new effort of that power which feparated them to re-unite them.

It was defireable more minutely to examine these chasms, but we could not resolve to descend from the summit; this precipice is one of those not to be braved with impunity; hence we decided upon a circuitous rout of, twelve or sisten leagues, to endeavour to find an entrence to them, either in the Val de-Broto, or in that of Fanlo; and retook our way by the cataracts of Béousse, to be certain at least of passing the night in a place where it might be possible to make a fire.

It was at one o'clock I began to defeend from the funnit, after having made a fecond observation with the baroneter, but this was not made at Tarbes. Beside, my instruments had not very sensibly varied. — I had continued near two hours upon this summit, and during all this time, no being that had life came within reach of my sight, excepting an eagle slying with such an inconceivat le rapidity against the current of the wind, that the space of a minute veiled him from my eyes.

It is with the utmost difficulty, we ourselves could struggle with the impetuosity of this wind, which an eagle could so triumphantly encounter; and the cold too we experienced from it was almost insupportable. No wind diminishes so quickly the sensible

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heat, as a fouth wind, when we are exposed to its action in the higher regions of the atmosphere. It derives this property from its dryness and velocity, which entices and forwards the evaporation of bodies susceptible of its influence. The thermometer was not low, yet we were almost frozen, but this was all the inconvenience I felt; we breathed without difficulty in this rarified air, found by many fo infufficient for respiration. I have been myself more than once or twice witness to persons of hale vigorous constitutions being obliged to forego proceeding to heights much beneath this—even Sauffure, upon the defile of the Giant, where the air was by no means fo rarified, experienced an oppression in breathing, by somewhat more than common exertion, but here we felt nothing of the kind. The pulse only indicated an alteration, which was independent of the agitation occasioned by the labour of the journey -- rest did not quiet it-all the time we were upon the fummit, it was low, dry, and extended, and beat at a rate of five to four—the fever evidently proved the uncafine swe should have experienced at a greater height; but in the manner we were affected, it produced an effect very different to what another degree of elevation would have done. So far from occasioning any weakness, it feemed rather to add to my strength, and invigorate my spirits. Vegetation prevailed almost to the very fuminit of Mont Perdu. I shall content myself with pointing out the most remarkable stations of it.

Upon its fouthern side, the vegetation or growth of trees ceased: t two thousand one hundred and sifty metres, or one thousand one hundred toises—there were a species of Scotch pines—still higher shrubs seemed to thrive with much vigour; the juniper endures at the highest, and leaves the rhododendron in the rear. Among these shrubs I noticed the cistus roseus, of Jacquin, growing a little below the desile of Nissel; and to this point we meet with a very vigorous and herbaceous plant, known by the name of enicus spinosssimus of Villars, which has an appearance different from that of Linnæus: I sent some of the seeds of it to Mr. Cels.

At the defile of Niscle, that is to say, at the height of two thousand five hundred and fixteen metres, or one thousand two hundred and ninety-one toises; the surface is covered with verdure; and the potentilla supinoides, of Willdenow, and the ranunculus montanus, of the same author, are both sound in abundance here. These two plants are constantly Alpine in the Pyrenees; the first particularly so perhaps, if it is really different from the potentilla valderia.

At one hundred and fifty or two hundred metres higher, appeared the ranunculus parnaffiafolius; this rare species is very common here. I remarked that I met with it but three times in the upper Pyrenees, and then always in situations of precisely the same elevation. Above this station, and until you reach the upper terrace, all is permanent or moveable wrecks of snows; but at the terrace vegetation re-appears: and there are even some grasses, and common saxifrages to be met with.

A check however is once more given to vegetation by the great glacier; yet upon rocks under the shelter of the peak, hard and naked as they are, you discover a species of turf of faxifraga greënlandica et androsacca, and some tusts of the artemista rupestris of La Marck: these plants are small but vigorous; after all, I have gathered round the peak a cerastium, considered by many botanists as the aspinum of Linnæus, and the arctia alpina with rose slowers, drawn by Jacquin; they were both in their highest bloom, and never did I behold the latter in so much vigour and beauty.

These latter plants grew so near the summit, that one cannot doubt but they would establish themselves there but for the moving fragments, which invincibly, as it were, repulse them; the lichens even will scarcely fasten to these fragments, and I could but distinguish

diffinguish a few of those of the nature of crustaceous lithophages, which every where have a disposition to fasten on stones of this species.

However the most perfect plants which take growth at the greatest height and under the same latitude are those which I have just particularized. The platform and its immense clefts were now what remained for me to explore. I reached Gavarnie on the 20th August, and on the following day passed the port, the less elevated, the easiest and most frequented passage over this part of the Pyrenees, notwithstanding it is found to be, by the measurement of some engineers, one thousand one hundred and ninety-six toises high, and the mean of two barometrical observations, varying but little from each other, fixes it at two thousand three hundred and twenty-three metrees, which is not more than seven metres less—hence it is evident this defile as much exceeds St. Gothard in elevation, as the Port de Pinede does St. Bernard; and in fact the great mass of the Upper Pyrenees, exceed in height that of the higher Alps, although the elevations of the peaks which command them, are much less.

I now descended to the Spanish Hospital of Boucharo, in elevation corresponding with that of Gavarnie, viz. one thousand four hundred and forty-four metres or seven hundred and forty-one toiles. Here I found the platform which role upon my left abfolutely inacceffible, and confequently found it necessary to range the valley of Broto, to discover if possible an entrance into some of the clefts; in our search we arrived at Torla, a confiderable village at about a league and a half distance from Boucharo; here I perceived to the east an opening into a large valley, which penetrated into the platform, and which is known by the name of the Val d'Ordesa, and entirely uninhabited, I made my way to it by fording the Ara, and was prefently fatisfied I had entered one of the clefts I had contemplated from Mont Perdu. Its aperture is at the fummit of Torla, which by my barometrical observations I found to be one thousand and eighty-one metres, or five hundred and fifty-fix toiles. I rambled in this cleft for four hours, always under the shade of a thick stately forest, and inclosed between vertical walls of The day was drawing towards its close when we reached the exdreadful elevation. tremity of the cleft; the platform was still above our heads, furrounded with those walls fo impossible to climb, which determined us to pass the night under the shelter of a rock overforead with tufts of the genifta lufitanica a very rare shrub, which we cut to light and feed our fire. We found the height of this station to be nine hundred and twentyfive toifes.

At the break of the following day we proceeded to reconnoitre the walls, which after two unfuccessful attempts and not without imminent danger, we scaled with our hands and seet. Having attained the platform, the face of every thing seemed changed around us, and in such a manner that we hardly knew where we were. Mont Perdu, the Cylinder, its walls and cless, were before us, but we were enabled to single them out from amidst the chaos of rocks so piled upon each other; it was necessary then I should traverse the platform to adjust my observations with those I had made on the summit.

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After more than once consulting the barometer on different situations of the platform, its mean elevation I found to be two thousand four hundred and thirty metres, or something more than one thousand two hundred toises. This height, compared with those I had taken at the bottom of the valley, gives an advantage over its upper extremity of five hundred and thirty-six metres, and is one thousand two hundred and sifty seven metres above its mouth, so that the mean depth of the cleft will be eight hundred and ninety-six metres, or four hundred and sifty-nine toises.

Having now ranged in two directions the meridional fide of this shell-composed chain, I will in a few words give the result of my observations. With respect to the general disposition

disposition of the surface or ground, it is certain that the steeps are much more precipitous on the fouth than north; the mountains too fink faster, and the valleys are deeper, though at the fame time this fide of the chain has less transversal breadth than the other, and the furface of this part of Spain is higher than the corresponding furface of France. As to the nature of these mountains, they are all secondary; the last primitive materials I noticed were in the Port of Gavarnie: here at its utmost elevation we find granite, and we afterwards leave to the north limestone, and afterwards large very inclining shelves of grauwakke, alternating with slakes of grauwacken-schieffer, the latter is very much intermixed with wrecks of aquatic monocotyledones plants, whose forms are frequently spread with a pyritous varnish; it is, we know, in this species of rock that the most ancient remains of organised beings are to be met with, beyond all is composed in fome fort, of two elements; gravel more or lefs coarfe, and fetid limestone, more or less polluted with clay, both mixed in all proportions, from the pudding and the freestone, where the union is hardly discernible, to the compact limestone in which the fand is with difficulty recognifed; but with this difference, that the beds wherein flint and fand predominate constitute the greatest portion of the mountains, and compact limestone is feldom found there but in finall, irregular, and shelving beds; finally marine bodies are chiefly discovered in beds composed of fand of a moderate fineness, and in mean proportion, few are met with in freestone of gross quality, and fewer yet in marbles, and among the number of folils, the species in which they most prevail is that of the lenticulares numifinales, and here they are so abundant as to strike minds the most accustomed to the contemplation of the destruction of nature. I have met with them of three dimensions, and they appear to constitute as many distinct species; the diameter of the fmallest rarely exceeds two millimetres, and is frequently much less; the first is found upon the fummit of Mont Perdu, and appears to have fuffered from transportation, and its exterior forms are greatly defaced; the fecond is found along the Val de Broto even to the deepest part of the Val d'Ordesa, it takes its residence in the inferior or lower beds, and difcovers itself evidently enough by the tubercles on its furface, and internal spires: its diameter attains to about half an inch; the third is about an inch and a half in diameter, and is found in the lowest beds, below Torla, towards the plain.

Further respecting the disposition of all their materials, it is too wonderful in the history of fecondary mountains to be passed over, particularly the range of Marbore and Mont Perdu, the beds of which are arranged in fuch a manner as very frequently to take a vertical fituation, and the most elevated summits of this mineralogical parallel are formed of beds thus disposed; but we scarcely find ourselves in the Val de Broto, when the beds become horizontal, without a possibility of discovering their relative positions, or where the change begins. The horizontal beds are very precipitous, like those which are vertical, and like them are vertically divided by fiffures croffing from one fide to the other. We might in more than one place be easily deceived, and take these trenches for beds, if we were not particular in noticing the order of the upper polition of their materials. It is this disposition to divide itself vertically, however constructed its beds, which in a very eminent degree characterizes the chain of Mont Perdu and all its dependances; and it arises from the spontaneous division of its beds into small folids, the form of which tends more or lefs to a rectangular parallelopiped, and there is even in the fand which incorporates itself in these beds, an apparent tendency to a similar division, which has been remarked frequently in the freeftones of other parts of Europe. But what in other places would be confidered a phenomenon of no magnitude, and comprehended by a very curfory view, takes here a character for grandeur fo prodigious, that even the acknowledged proceedings of nature appear at first incompetent to the explana-

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tion of fuch uncommon forms. Further in no part were these forms so imposing as in those great clefts I had just explored. Their surface is a succession of steps perfectly horizontal, and formed by beds of freeslone, with which we observed intermixed the red freestone, considered by geologists as the most ancient of the globe. Here the torrents are so regular in their fall, that the whole passage they make to themselves seems to be the work of man. The positions too of these immense fissures, disposed into stories of prodigious elevation, and on every side of us lost to our sight, their perpendicular materials, colour, and joinings, so much recall to our minds structures raised by the hand of man, that we imagine ourselves contemplating the ruins of some immense edifice.

The pudding stone and freestone constitute the largest portion of these walls; but the compact limestone separates them here and there in large strata; upon the higher landings these are particularly observed in small beds, not difficult to be distinguished, and always horizontal in their position

The first beds I noticed upon the platform were yet horizontal, and are composed of a pudding stone, in which the slints and fand form in the calcareous fand very irregular undulating veins.

But at the approach of the peak the position of the beds are entirely changed. At the base of Mont Perdu I sound the shell composed beds varying themselves to the south, and dipping to the north on an angle of 45° an inclination the very opposite to that of similar beds which constitute the northern base of the same peak. It is therefore certain that the beds of this mountain are, as it were, an open san, the vertical rays of which constitute its summit; a very singular disposition, and an inversion of that which a rise or burst * could have produced. It is further certain, that the beds arranged towards the peaks are precisely the shortest, the most irregular, and intertwined; and that there is a coherency and regularity in those beds very proportional to their approach to a perfect horizontal position.

We cannot doubt that the latter are in their natural and original position, and that they owe their regularity to the foil upon which they have been deposited.

Befides the waters by which they were collected being turbulent, have by turns thrown up calcareous flime, fands, and heavy flints, and mixed their various materials with an effort, the figns of which cannot be mistaken.

I have already in another place attempted to establish the fact, that the course of these waters was rapidly impelled in a direction from the south-west to the north-east, and this is strongly here evinced by the position of the different masses and the situation of the steeps. The force then of these currents, upon the southern face of the primitive chain, would naturally lodge the matter they accumulated very irregularly upon its sides, not less on account of the inclination and ruggedness of the surface which received it, as by reason of the agitation, whirlpools, and swelling of the waves, by which it was impelled along.

The irregular beds which these tumultuary impulsions occasioned, being at first unstably lodged upon very oblique planes, have removed from them, as soon as they had received a considerable addition to their bulk and weight; and it is natural to imagine that the most inclined of these beds must have fallen upon the regular deposits beneath, and that several of them have maintained an hold upon the lower trenches. A movement of this nature is more easily imagined than an eruption, the causes of which must be looked for in some vague hypothesis, and whose natural effect would be rather to lift up the beds in shifts, upon each other, than spread them out like a fan.

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anation In the mean time one of the greatest difficulties yet remains unaccounted for; it is not easy to comprehend how such masses, evidently as it were, turned upside down, have taken their stations several hundred metres above the summits of the mountains, from whence we might believe them to have been thrown down. Has it then arisen from the sinkings that have lowered, as there are many circumstances to induce a belief, the northern mountains? or have their summits been subjected to a more rapid waste, as other facts authorize us to imagine? Let us however confess, there is nothing clearly to be depended upon, excepting that some extraordinary convulsion of nature has subjected the higher beds of Mont Perdu to a change of position.

Another circumstance is also clear, and that is, that this convulsion has originated beneath the waters, as is evident from those upper disposed shelves, on the summit of the overturned beds; which upper deposites may have occupied many vacuities, enlarged many ridges, and strongly cemented the crumbling masses with the compressed ones.

The first valleys, the vestiges of which are sufficiently distinguishable, have been formed upon these mountains by the retiring of the waters, and these waters, having once found their natural level, have lest these masses to distinction, and their natural weight; the general or partial sinkings too of these masses, have occasioned the great southern cless; and probably the deep valleys to the north and west, which divide by diverging, having

always Mont Perdu for their centre.

Doubtless these cless have at first been no other than narrow fissures, and by degrees, since enlarged by the fall of their walls; the varied position of the beds to the north of Mont Perdu, and the diversity of the matter seated upon them, has determined irregularly this enlargement; and the valleys have expanded themselves from their bottoms to their edges in a multitude of different angles: to the south on the contrary, the tendency of the beds in every way vertically to divide themselves, never fails to leave behind their fallen surfaces perpendicular craggs; and the destruction acting always in the same manner, upon substances always similar, has increased the sissures by sections parallel to their first line, insomuch that their projecting and returning angles have every where retained their original correspondence.

I will not extend these restections farther; what I have already said is sufficient for the singularities of one mountain; but this mountain is not only the highest of the Pyrenees, it is also the most elevated point of our hemisphere whereon organic wrecks have been discovered; it is, in a word, of all the known mountains, the last labours of the sea, in its volume the most considerable, and the most extraordinary from its structure. A ground like this is classical for the study of secondary mountains, and the history of the last revolutions of the globe. It will afford a reiterated exercise to the sagacity of the interpreters of nature; and, from what I have myself advanced regarding it, it will be

evident I am very far from having exhaulted its geology.

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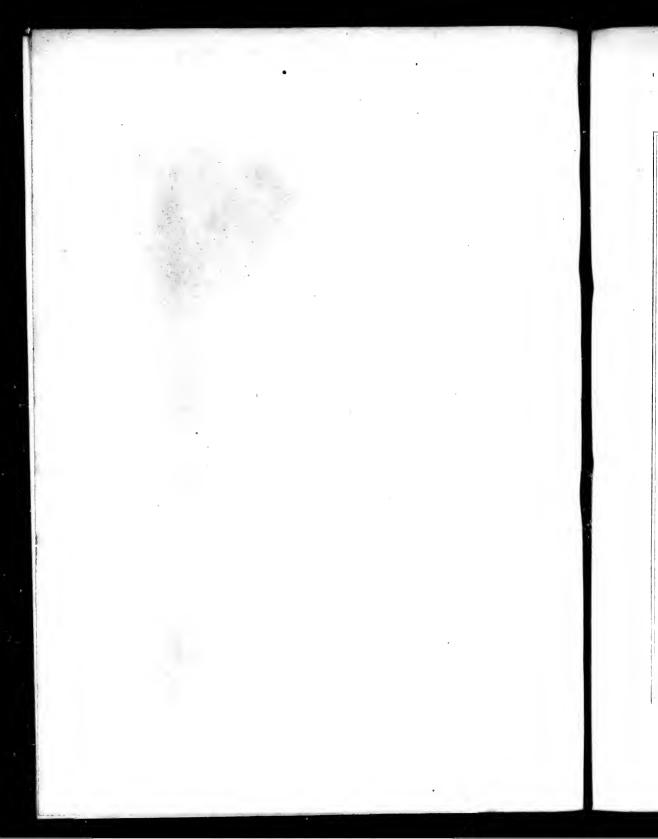


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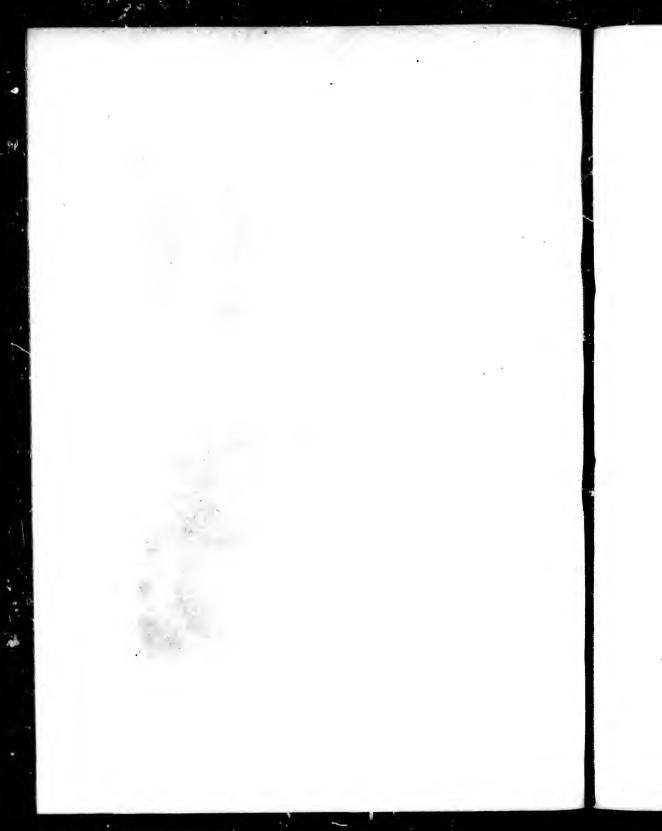
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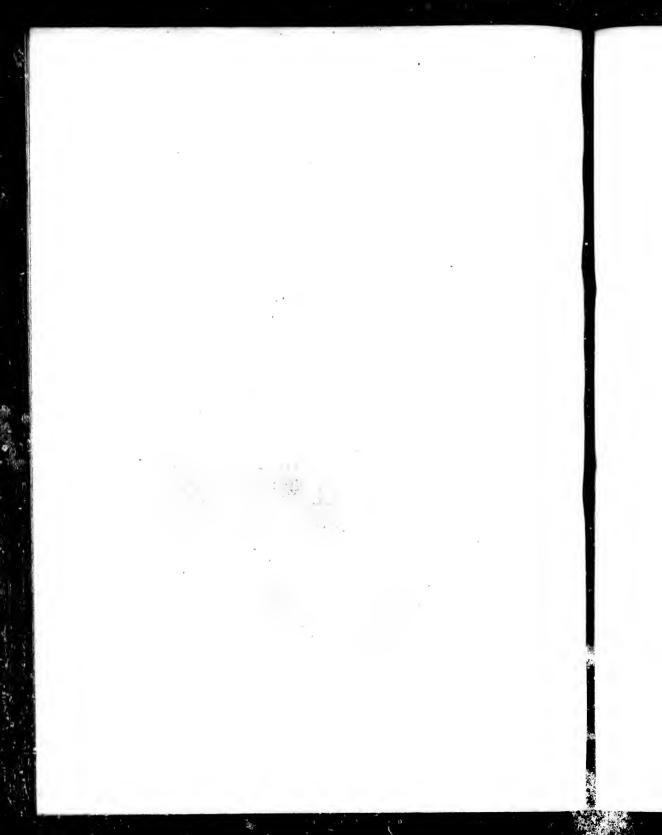
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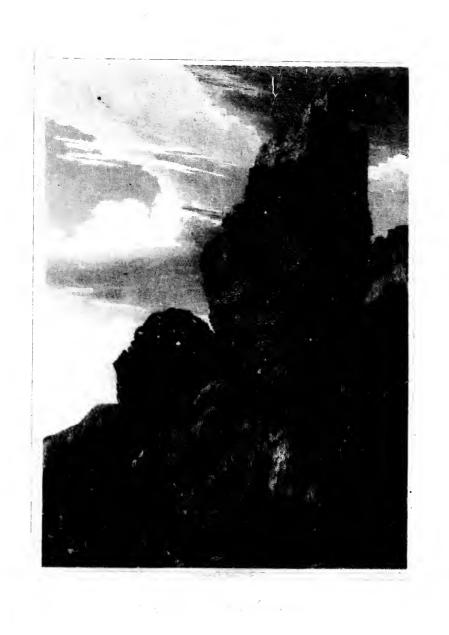


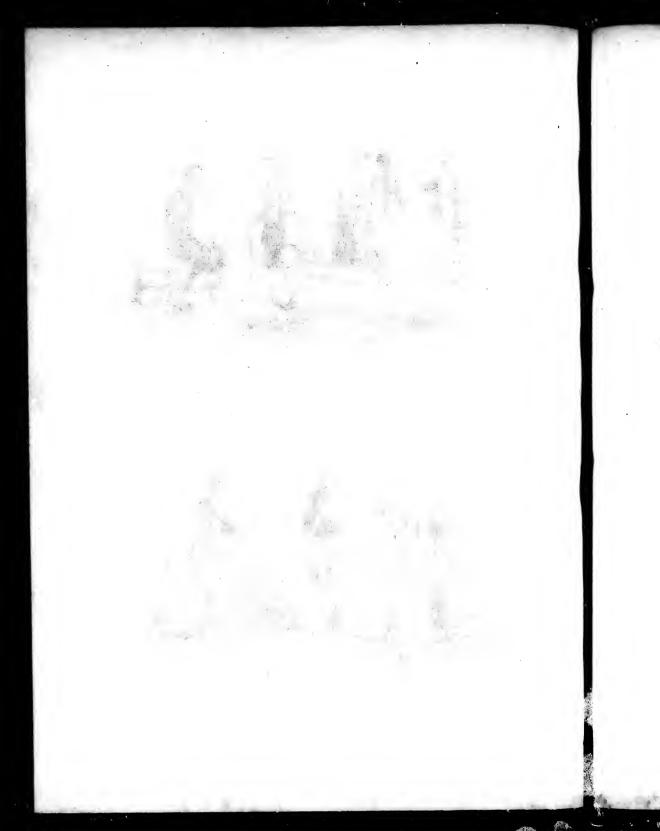


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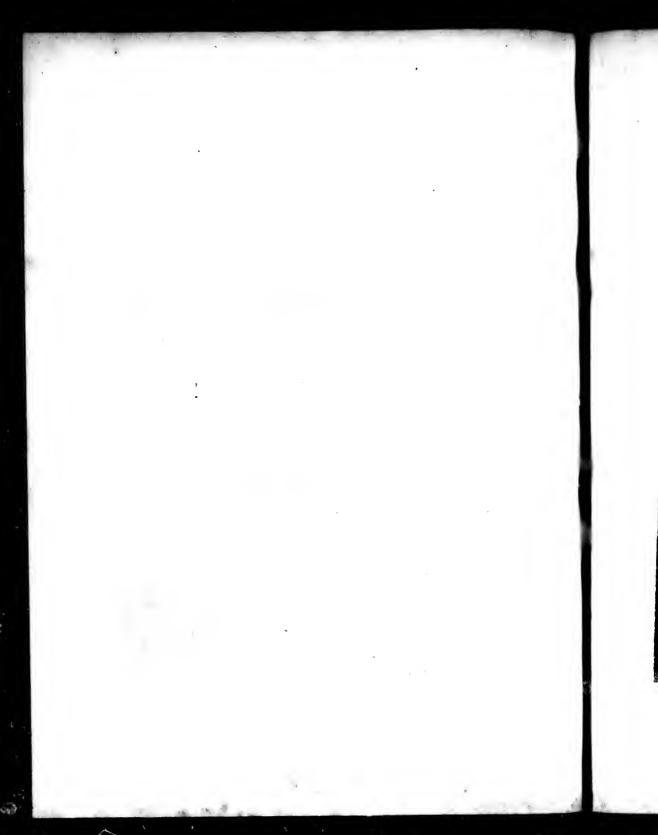




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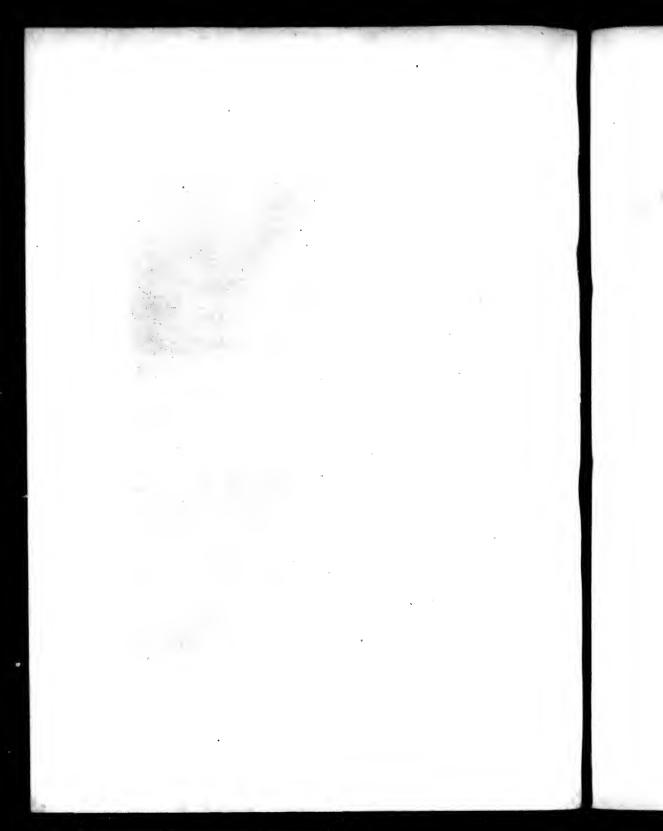


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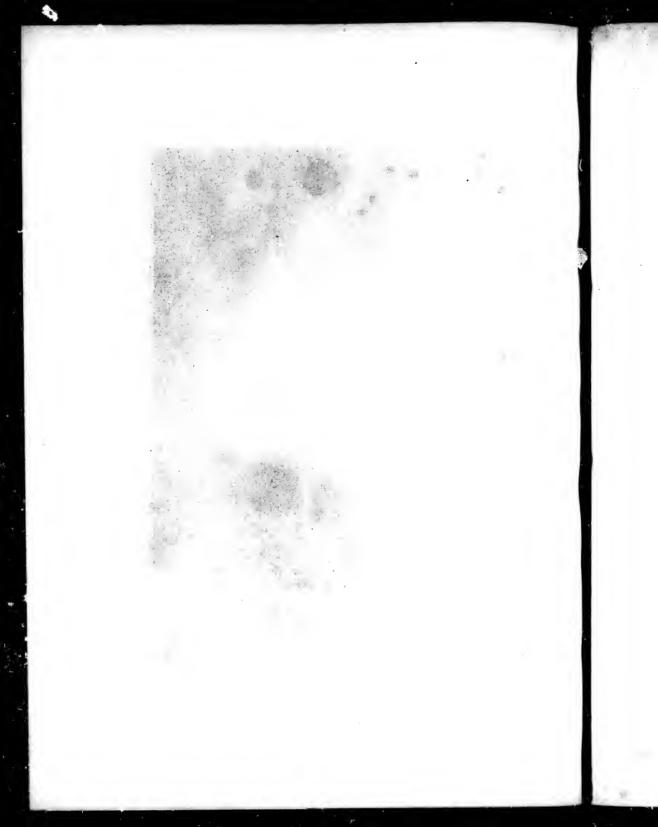
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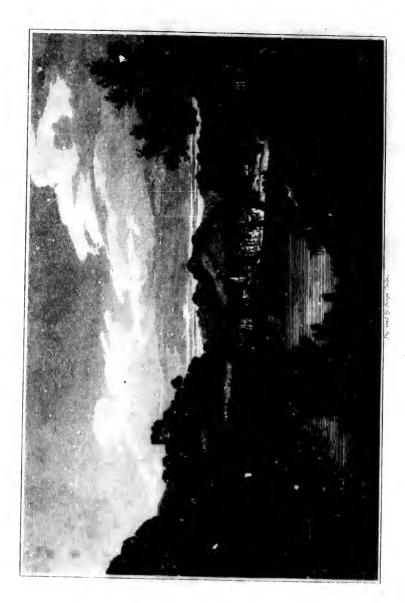




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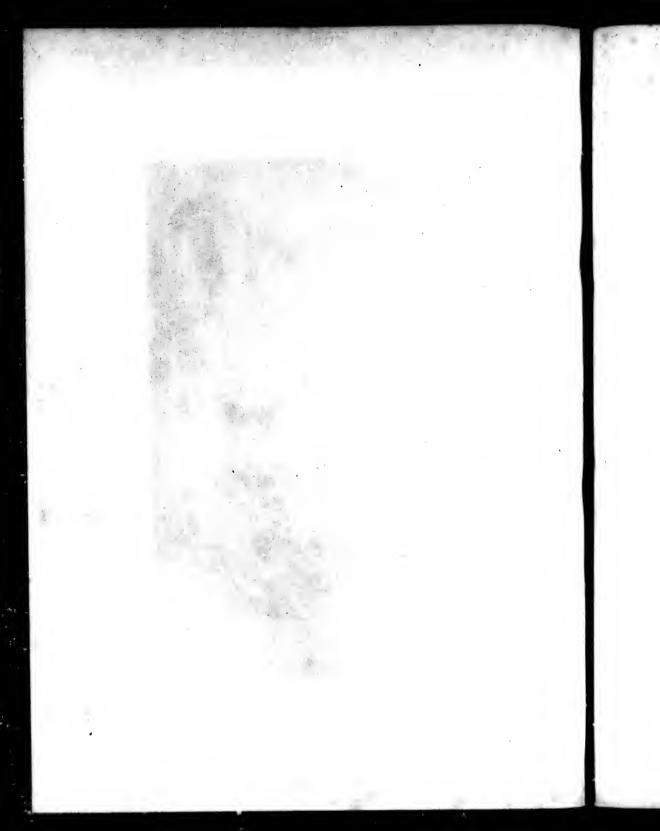
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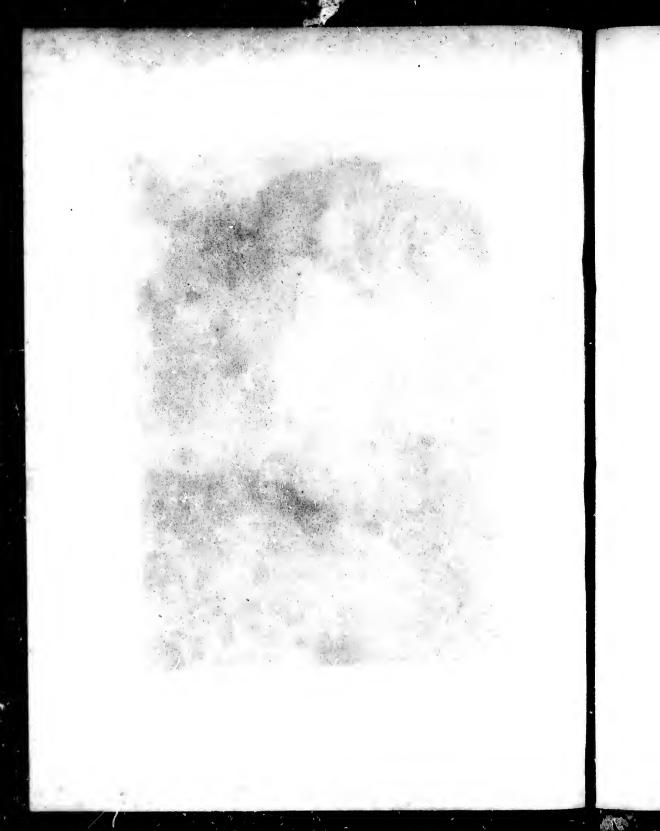
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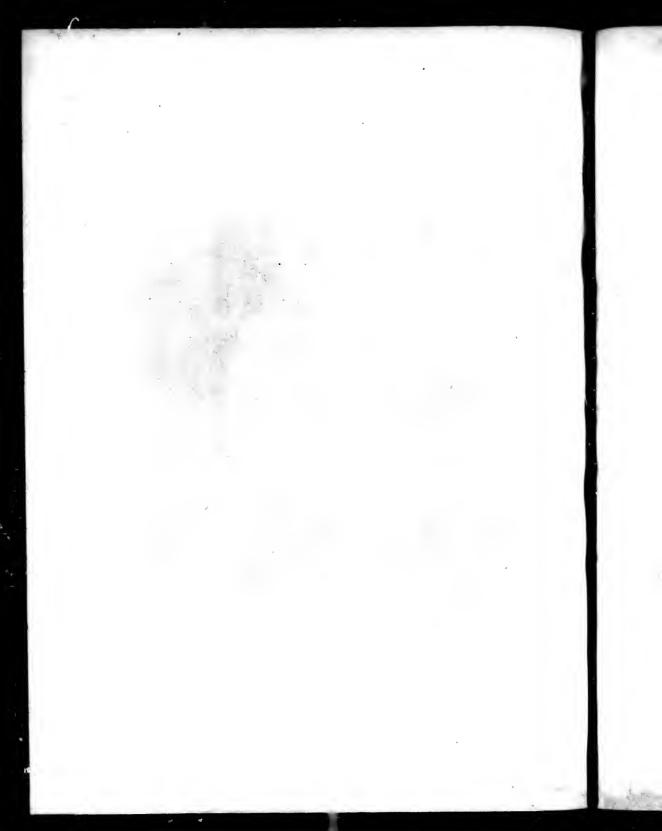


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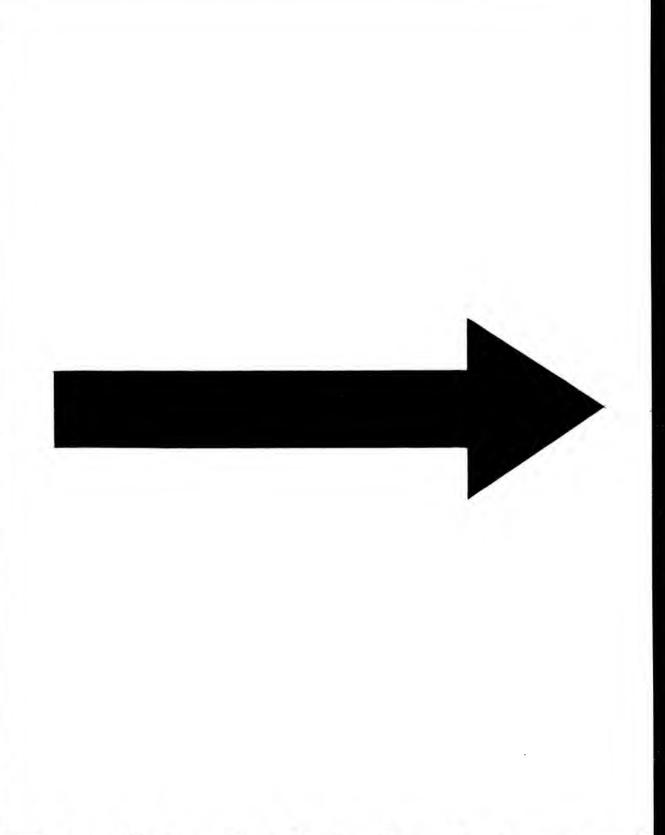
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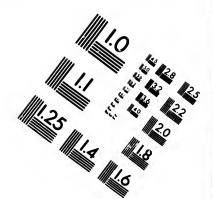
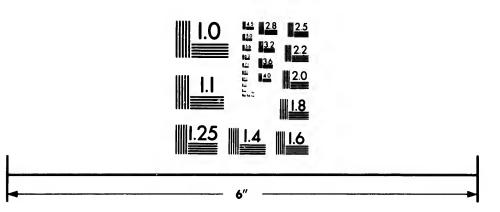
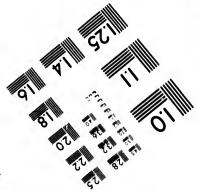


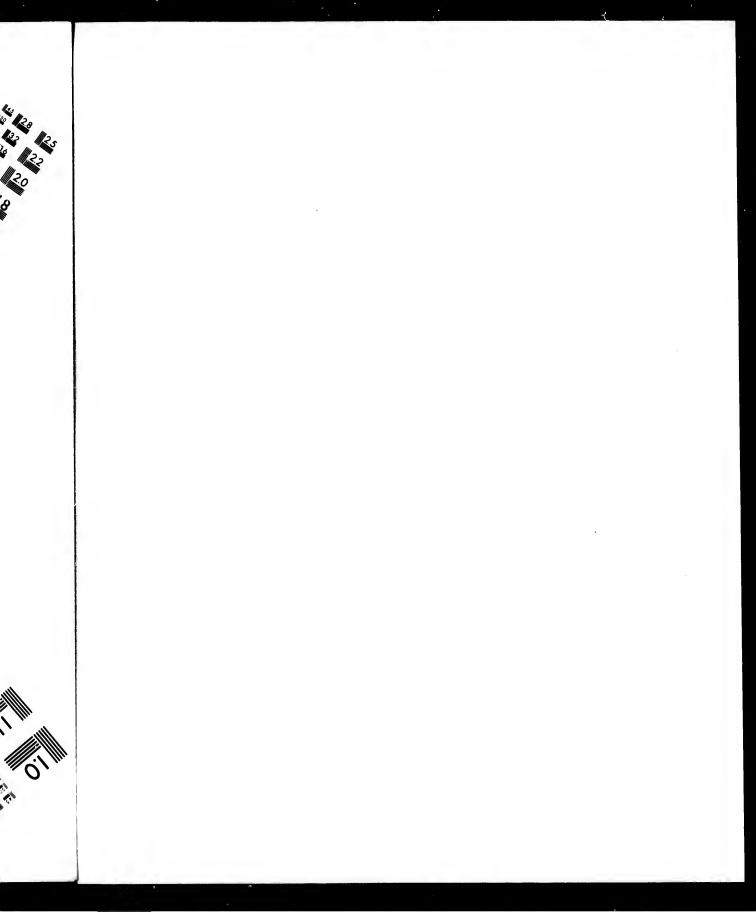
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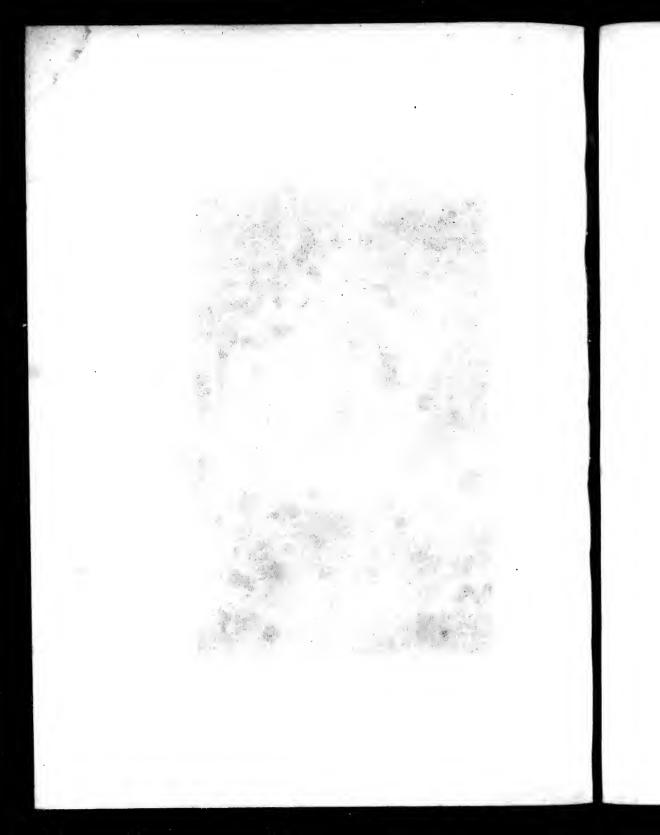


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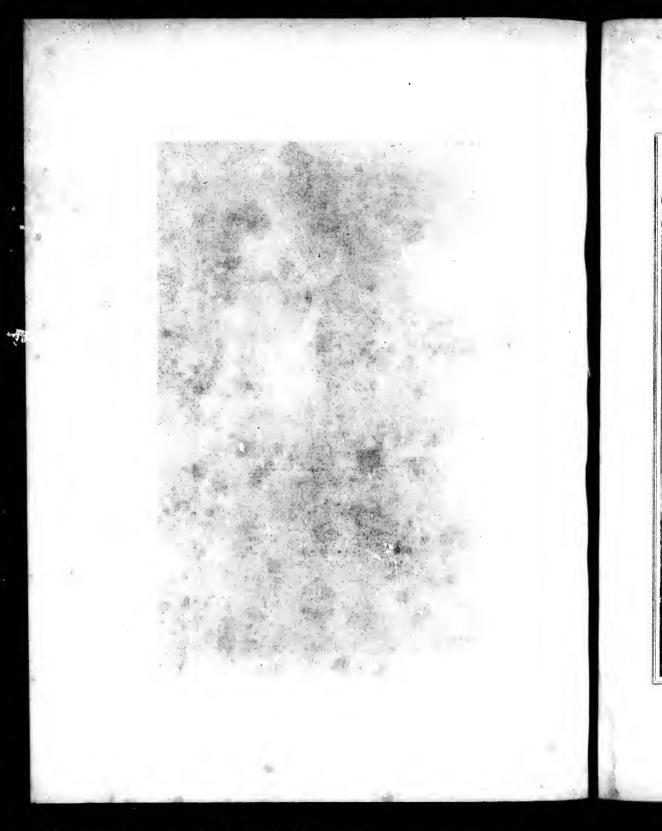








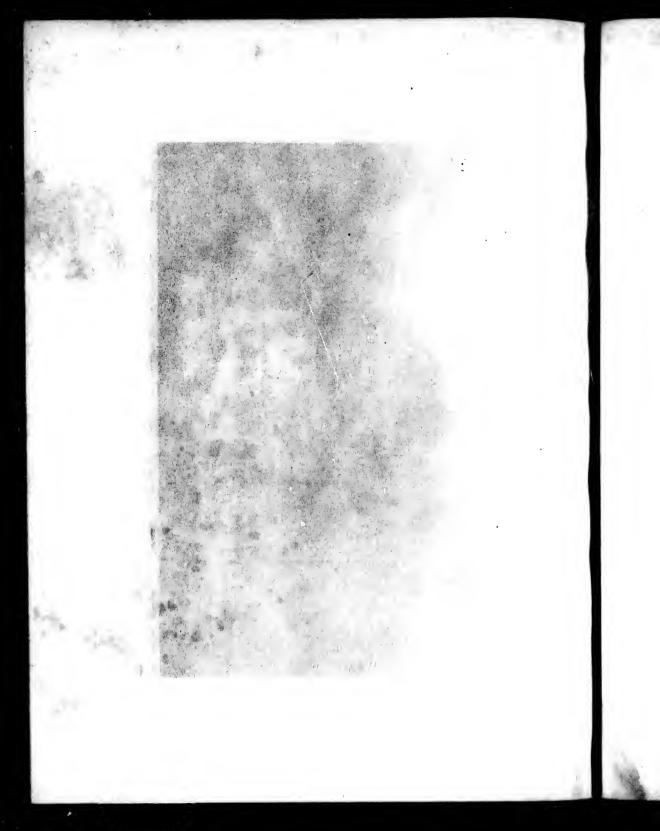
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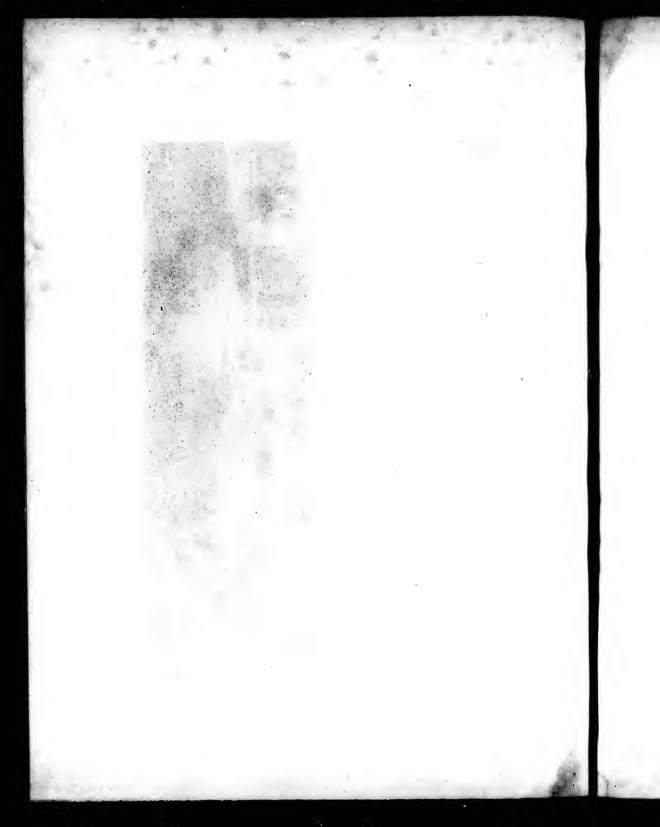


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