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## HISTORİCAL

GEOGRAPHICAL, COMMERCIAL

AND
PHILOSOPHICAL
VIEW

OF THE

# AMERICAN UNITED STATES, 

AND OPTHE
EUROPEAN SETTLEMENTS

IN

- AMERICA and the WEST-INDIES.

BY
W. WINTERBOTHAM.

IN FOUR VOLUMES,

> V O L. Щ.

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$\Longrightarrow$
1795.


## CONTENTS.




## SOUTHERN STATES.

THIS third; which is much the largeft divifion of the United States, comprehends

MARYLAND, VIRGINIA, KENTUCKY, NORTH-CAROLINA, TERRITORY S. of the OHIO; SOUTH-CAROLINA, and GEORGIA:

This extenfive divifion is bounded on the noath by Pennfylvania and the Ohio river; on the weft by the Miffiffippi; on the fouth by Eaft and Weft Florida; and on the eaft by the Atlantic ocean and the Delaware State. It is interfected in a N. E. and S. W. direction by the range of Allegany mountains, which give rife to many noble rivers, which fall either into the Atlantic on the eaft, or the Miffiffippi on the weft. From the fea coaft, fixty, eighty, and in fome parts an hundred miles back towards the mountains, the country; generally fpeaking, is nearly a dead level, and a very large proportion of it is covered, in its natural ftate, with pitch pines:. In the neighbourhood of ftagnant waters, which abound in this level country, the inhabitants are fickly; but in the back, hilly and mountaingus country; they are as healthy as in any part of America.

This diftrict of the Union contains about two millions of inhabir tants, of whom about fix hundred and forty-eight thoufand are flaves. The influence of llavery has produced a very diftinguifhing feature in the general character of the inhabitants, which, though now difcernible to their difadvantage, has been foftened and meliorated by the benign effects of the revolution, and the progrefs of liberty and humanity.

## HISTORT OF ITS SETTLEMENT, E'c.

\#:

## MARYLAND.

This State was granted by a patent of King Charles the Firft June $30,163_{2}$, to George Calvert, Baron of Baltimore, in Ireland,* who had been obliged, on account of the French government, to abandon the province of Avalon, in Newfoundland, after having expended twenty-five thoufand pounds in its advancement.

The government of this province was by charter vefted in the proprietary; but it appears, that he either never exercifed thefe powers alone, or but for a fhort time; for we find, in 16375 that the freemen rejected a body of laws drawn up in England, and tranfmitted by his lordfhip, in order to be paffed for the government of the province. In the place of thefe they propofed forty-two bills to be enacted into laws, by the confent of the proprietary: thefe were, however, never enacted, at leaft they are not on record.

The firf emigration to Maryland confifted of two hundred gentle:men of confiderable fortune and rank, with their adherents, chieflyRoman Catholics, who hoped to enjoy liberty of confcience under a proprietary of their own profeffion. They failed from England in November, 1632 , and landed in Maryland the beginning of $1633^{\circ}$. The Honourable Leonard Calvert, brother to Lord Battimore, who was the firit governor, very wifely and juftly purchafed, by prefents of various goods, the rights of the Indians, and with their free confent took poffeffion of their town, which he called St. Mary's. The country was fettled with fo much eafe, and furnifhed with fo many conveniencies, that emigrants repaired thither in fuch numbers, that the colony foon became populous and flourifhing.

In 1638 a law was paffed, conftituting the firtt regular Houfe of Affembly, which was to confift of fuch reprefentatives, called bur-

[^0]geffes, as fhould be elected purfuant to writs iffued by the governor. Thefe burgeffes poffeffed all the powers of the parfons alecting them; but any other freemen, who did not assent to the election, might take their seats in person. Twelve burgeffes or freemen, with the lientenant-general and fecretary, conftituted the Affembly or Legillature. This Affembly fat at St. Mary's.

Slavery feems to have gained an early eftablifhment in Maryland, for an act of this Affembly defcribes " the people" to contift of all Chriftian inhabitants, " flaves only excepted." The perfecuting laws which were paffed by the Virginians; foon after this period, againt the Puritans, made the latter emigrate in confiderable numbers to Maryland, that they might enjoy, under a Popifh proprietary, that Fiberty of conicience of which they were deprived by Y their fellow Proteftants:

In 1642 it was enacted, that ten members of the Affembly, of whom the governor and fix burgeffes were to be feven, fhould be a Houfe; and if ficknefs fhould prevent that number from attending, the members prefent hould make a Houfe.

In 1644 one Ingle excited a rebellion, forced the governor to fly. to Virginia for aid and protection, and feized the recörds and the great feal; the laft of which, with moft of the records of the province, were loft or deftroyed. From this period to the year 1647 , when order was reftored, the proceedings of the province are involved in almof impenetrable obfcurity.

In July, 1646 , the Houfe of Anfembly, or more properly the burgeffes, requefted that they might be feparated into two branchesthe burgeffes by themfelves, with a negative upon bills. This was not granted by the lieutenant-general at that time; but in 1650 , an act was paffed dividing the Affembly into two Houfes; the governor, fecretary, and any one or more of the council, formed the Upper Houfe; the delegates from the feveral hundreds, who now reprefent the freemen, formed the Lower Houfe. At this time there were in the province but two counties, St. Mary's and the Ifle of Kent, but another (Ann Arundel) was added the fame feffion. This was during the adminiftration of Governor Stone.

In this year there was alfo paffed "an act againft raifing money without the confent of the Affembly." It enacted, "That no taxes Jall be affeffed or levied on the freemen of the province witbout their own confent, or that of their deputies, firft declared in a General ADJembly."

The

The printed words and early date of this Maryland act are worthy of particular notice. The acts of the General Affembly and governor were of the fame force in their own province as acts of parliament in England, and could not be repealed without the concurring affent of the proprietary or his deputy, with the other two eftates.

In 1.654, during Cromwell's ufurpation in England, an act was paffed reftraining the exercife of the Roman Catholic religion. This mult have been procured by the mere terror of Cromwell's power, for the firft and principal inhabitants were Catholics. Indeed the power of Cromwell was not eftablified in Maryland without force and bloodfhed. His friends and foes came to an open rupture, an engagement enfued, Governor Stone was taken prifoner, and condemned to be fhot; this fentence, however, was not executed, but he was kept a long time in confinement.

In March, 1658 , Jofiah Fendall, Efq. was appointed lieutenant general of Maryland by commiffion from Oliver Cromwell; he diffolved the Upper Houfe, and furrendered the powers of government into the hands of the delegates.

Upon the reftoration in 1660, che Honourable Philip Calvert, Efc. was appointed governor; the old form of government was revived; Fendall, and one Gerrard, a counfellor, were indicted, found guilty and condemned to banifliment, with the lofs of their eftates; but, upon petition, they were pardoned.

In 1689, the government was taken out of the hands of Lord Baltimore by the grand convention of England; and in 1692, Mr. Copley was appointed governor by commiffion from William and Mary.

In 1692, the Proteftant religion was eftabliked by law.
In 1699, under the adminiftration of Governor Blackifton, it was enacted, that Annapolis hould be the feat of government.

In 1716, the government of this province was reftored to the proprietary, and continued in his hands till the late revolution, when, though a minor, his property in the lands was confifcated, and the government affumed by the freemen of the province, who formed the conftitution now exifting. At the clofe of the war, Henry Harford, Efq. the natural fon and heir of Lord Baltimore, petitioned the legiflature of Maryland for his eftate, but his petition was not granted. Mr. Harford eftimated his lefs of quit-rents; valued at twenty-five years purchafe, and including arrears, at two hundred and fifty-nine thoufand, four hundred and eighty-eight pounds, five
millings, dollars at 7f6-and the value of his manors and referved lands at three hundred and twenty-íeven thoufand, four hundred , and forty-one pounds of the fame money.
*
VIRGINIA.
We have already, when treating of the difcovery of North-America, given a brief hiftory of the fetilenent of this State to the year 1610,* when Lord Delaware arrived with fupplies for the colony of fettlers, and provifions. His prefence had a happy effect on the colony, order and confidence being foon ieftored by him. The fate of his heale did not, however, permit him long io purfue his plans of improvement, for in the beginning of $16!1$ he was obliged io return to England, leaving about two hundred colonifts, poffeffed of health, plenty and peace with their neighbouts. After his departure the colony again declined; but his fuccefior, sir Thomas Dale, arriving in May with more emigrants, cattie and provifion for a year, things were again reftored to order. This fame year the adventurcers obtained a new charter, by which the two former were confirmed, and they had alfo granted to them all the illands fituated in the ocean, within threc hundred leagues of any part of the Virginia coaft. The corporation was now confidèrably new-modelled, and, in ordef to promote the effectual fettlement of the plantation, licence was given to open lotteries in any part of England. The lotteries alone, which were the firft ever granted in England, brought twentynine thoufand pountis into the company's treafury. At length, being confidered as anationalevil? they attracted the notice of Parliament, were prefented by the commons as a grievance, and in March, 1620, fufpended by an crder of council.

In April, I613 $_{13}$, Mr. John Rolf, a worthy young gentleman, was married to Pocahontas, the daughter of Powhatan, the famous Indian chief. This connection, which was very agreeable both to the Englinh and Indians, was the foundation of a friendly and advantageous commerce between them.

Three years afterwards Mr. Rolf, with his wife Rocahontas, vifited England, where fhe was treated with that attention and refpect which the had merited by her important fervices to the colony in Virginia. She died the year following at Gravefend, in the twentyfecoñd year of her age, juft as fle was about to embark for America.

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## 6.

 GENERAL DESCRIPTIONShe had embraced the Cbrifian religion, and in her life and death. evidenced the fincerity of her profeffion. She left a fon, who, having received his education in England, went over to Virginia, where he lived and died in affluence and honour, leaving belind him an only daughter. Her defcendarts are amiong the moft refpectable families in Virginia.

Tomocomo, a fenfible Indian, brother-in-law to Pocahontas, accompanied her to England, and was directed by Powhatan to bring him an exact account of the numbers and ftrength of the Englifh. For this purpofe, when he arrived at Pymouth, he took a long fick, intending to cut a notch in it for every perfon he floould fee: this he foon found impracticable, and threw away his ftick. On his return, being afked by Powhatan, how many people there were, he is faid to have replied, "Count the ftars in the fky, the leaves on the trees, and the fands on the fea floore; for fuch is the number of the people of England."
In $1672-13$, Sir Thomas Gates was difatched with fix large fhips, carrying three hundred colonifts; one hundred cattle and ufeful fupplies. He arrived in Auguft, and parties were fent out from Janes-town to form diffant fettlements. He returned the beginning of $16 \mathrm{I}_{4}$, and the adminiftration devolved once more on SirThomas Dale, to whom the Virginians owe the introduction of landed property. In 1615, fifty acres of land were granted to every emigrant and his heirs, and the fame quantity to every perfon imported by others. Dale failed for England in the beginning of 1616 , giving up the truft to Sir George Yeardley, as deputy-governor, and in this year the coltivation of tobacco was introduced. Mr. Argal, a new de-puty-governor, was fent out, who arrived in May, 1617. He publifhed a variety of edicts, and was guilty of thofe wrongs and oppreffions, that the treafurer and council appointed Yeardley captaingeneral, and empowered him to examine into and redrefs grievances. Sir George arrived in April, 16 19, with feveral inftructions favourable to freedom, and foon declared his intention of calling a General Affembly, which gave the greateft joy to men who had been hitherto fubjected to the arbitrary orders of their prince, to the interefted ordinances of an Englifh corporation, or to the edicts of a haughty governor, and who enjoyed none of thofe liberties which Englifhmen claim as their birthright.

In June, Yeardley, purfuant to his inftructions from the company, Iffied writs for the election of delegates, called burgeffes. The colony
colony had been divided into feven hundreds or diftinct fettlements, Which feemed to enjoy fome of the privileges of boroughs; and from this circumftance the democratic branch of the Affembly has been called to this day, the Houfe of Burgeffes, though compofed almoft entirely of the reprefentatives of countics. The Affembly, formed of the governor and council of Itate, who were appointed by the treafurer and company, and of the burgeffes chofen by the people, met together in one apartment, and tranfacted affairs like the parliament of Scotland of old, which mode continued till after the reftoration of Charles II. Thus convened, and thus compofed, the legiflature "debated all matters thought expedient for the good of the whole." The laws were tranfritted to England for the approbation of the treafurer and company, without whofe confirmation they were of no validity. The introduction of an Affembly was attended with the happieft effects. The emigrants, for the firft time, refolved to fettle themfelves, and to perpetuate the plantation. The Affembly thanked the company for their favour, and begged them * to reduce into a compendious form, with his Majefty's approbation, the laws of England proper for Virginia, with fuitable additions;" giving as a reafon, "that it was not fit that his fubjects fhould be governed by any other rules than fuch as received their influence from him." This year the treafurer and council received a letter from government, "commanding them to fend a hundred diffolute perfons (convicts) to Virginia." They were accordingly tranfported, "G and were, at that period, very acceptable to the colonifts." The fubiequent year, 1620 , muft, on account of the introduction of African flaves into the colonies, be ftigmatifed as a much viler æra. The Hollanders were not then precluded by any law from trading with the colonies. A Dutch veffel carried to Virginia a cargo of negroes, and the Virginians, who had themfelves juft emerged from a ftate of flavery, became chargeable with reducing their fellow-men to the condition of brutes.

In July, the treafurer and company carried into execution a refoIution formerly taken, for eftablifhing a proper conftitution for the colony. The ordinance they paffed, declared, that there fhould be two fuprene councils in Virginia, the one to be called the council of ftate, to be appointed and difplaced by the treafurer and company, and which was to advife the governor in governmental affairs; the other was to be denominated the General Affembly, and to confift

[^2]
## 8

## GENERAL DESCRIPTION

for the prefent, by the inhabitants of every town, hundred and fettlement in the colony. The Affembly was to determine by the majority of the voices then prefent, and to enact general laws for the colony, referving to the governora negative voice. . They were to imitate the laws and cuftoms, and judicial proceedings. ufed in England. "No acts were to be in force till confirmed by the General Court in England : on the other hand, no order of the General Court was to bind the colony till affented to by the Affembly." The company having offered territory to thofe who fhould either emigrate themfelves; or engage to tranfport people to the colony, found this policy fo fuccefsful, that upwards of three thoufand five hundred perfons emigrated to Virginia during this and the two preceding years.

This year, 1622 , was remarkable for a maffacre of the colonifts by the Indians, which was executed with the utmoft fubtilty, and without any regard to age or fex. A iwell-concerted attack on all the fettlements, deftroyed, in one hour and almoft at the fame Ginftant, three hundred and forty-feven perfons, who were defencelefs and incapable of making refitance. The emigrants, notwithftanding the orders they had received, had never been folicitous to cultivate the good-will of the natives, and had neither afked permiffion when they occupied their country, nor given a price for their va3uable property, which was violently taken away, The miferies of famine were foon fuperadded to the horrors of maffacre. Of eighty plantations, which were filling apace, only eight remained; and of the numbers which had been tranfported thither, no more than about one thoufand eight hundred furvived thofe manifold difafters.

Frequent complaints having been made to King James of the oppreffions of the treafurer and company, and the before-mentioned calamities being attributed to their mifconduct or neglect, it was determined, that a commifion thould iffue to inquire into the affairs of Virginia and the Scmer iffes, from the earlieft fettlement of each. Upon the report of the commiffoners, the king concluded on giving a new charter, and required of the company the furrender of former grants, which being refufed, a writ of quo warranto iffued in November, 1623 , againft the patents of the corporation: and judgment was given by the Court of King's Bench againft the treafurer and company, in Trinity term, 1624 . Thefe proceedings "were fo conformable to the general ftrain of the arbitrary adminiftration of that reign, that they made little impreffrom at the time, though
the Virginia company was compofed of perfons of the firf quality; reealth and confequence in the nation." The company, probably, would not have exercifed to tame and fubmiffive a firit, had they not been wholly difappointed in their vifionary profpects, and met with confiderable loffes, inftuad of acquiring enormous profits. They had obtained from individuals, who fported in their lotteries from the hope of fudden riches, twenty-nine thoufand pounds: but the tranfportation of more than nine thoufand Eniglifh fubjects had coft them one hundred and fifty thoufand pounds. They did not; however, abandon the colony in its diftrefs while they continued a corporation. Timely fupplies were fent from England to the Virginia fettlers, which fo animated them, that they carried on an offenfive war againft the Indians, purfued them into their faftneffes; and drove them from the neighbourhood of thofe rivers; where they had fixed their own plantations:

As to King James, he "affuredly confidered the colonies as acquired by conqueft; and that they ought to be holden of his perfon; independent of his crown or political capacity ; and might be ruled according to his good will, by prerogative: and he endeavoured, agreeably to the ftrange economy of his reign, to convert them into a mere private eftate; defcendible to his perfonal heirs.:"*

The Virginia company being diffolved, James tcok the colony under his immediate dependerce, which occafioned much confufion. U'pon his death, in 1625 , King Charles, being of the fame judgment with his father as to the government of Virginia, determined to tread in the fame fteps. In May he named a new governer and council for Virginia, and invefted them with an anthority fully legiflative and arbitrary. They were empowered to make and execute laws, to impore taxes, and enforce payment. Neither the commifion nor infructions mentioned exprefsly, or even alluded to an Affembly; to the laws of England, or to the acts of the provincial leginature, as a rule of government. They were required to tranfport colonifts into England, to be punifhed there for crimes committed in Virginia This fyftem increafed the colonial diffatisfaction, which continued for years, till the Virginians received a letter containing the royal aflurance, that " all their eftates, trade, freedom and privileges, fliould be enjoyed by them in as extenfive a manner, as they enjoyed

* See Chalmers's Political Annals uncer the head of Virginia, for many of the precting and fublequent articles refpefing that colony.

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them
them before the recaling of the company's patent." On this they were reconciled, and began again to exert themfelves in making intiprovements:*
Being left for fome years in a manner tô themelves, they increated beyond expectation. They remained under the adminititration of their late governors, and other officers, who refpeted their privileges becaufe they loved the colony. The governor whom Chariles had been anxious to appoint, had no opportunity of exercifing thore, illegal and extraordinary powers with which he had been invefted. His death, in 1627 , put an end to his authority, and prevented the colony's feeling its full extent. His fucceffor, John Harvey, Efqwas nominated in Miarch, 16 zg , and his commiffion and inftructions were precifely the fame with thofe of the former. He departed foon after for Virginia. The finit of his adminiftration was an exact counterpart of what had too long prevailed in England. He was fevere in his extortions, proud in his ccuncils, unjuf and arbitrary in every department of his government. The Virginians, roufed alinoft to madnefs by oppreffion, feized and fent him prifoner to England, accompanied with two deputies, to reprefent their grievances and his míconduct. His behaviour was fo thought of, that he was honoured with a new commiffion which confirmed his former powers, and he was fent back to Virginia in April, 1637. After that, his government was fo exceffively opprefirive and cruel, that the complaints of the colonifts became at length too lend to be longer neglected, and his commiffion was revoked in Janiary; $1638-9$. During his ten years adminiftration, the Virginians were ruled rather as the vaffals of an eaftern defpot, than as fubjects entitled to Englifh liberties; But it is to their eredit, that, having tated the sweets of a fimple goversment, they oppofed with a firm firit, diaring the reign of Charles, the attempts of thofs who endeavoured to revive the patents, and to reftore the corporation.

Sir William Berketey was appointed governor the beginning of 1639. His inftructions evidenced a prodigious change in coloniaF policy, which muff be partly afcribed to the then fate of affairs in England. He was direced to fummon all the burgeffes of the plantations, who; with the governor and council, were to contitute the Grand Affembly, with power to make atts for tee government of the coliony, as near as might be to the laws of England-io caure

[^3]ipeedy, juftice to be adminiftered to all, according to Englifh forms -and to forbid all trade with foreignvefels except upon necefryp Thus were the Vigginians reftored to that fytem of freedorn which they had derired from the Virginia company, and which the wit of $q^{20}$ evarranto had involved in the fame ruin with the corporation itfelf.

Civil difenfiong, however, took place, which were embittered by religious differences, and inflamed by acts made to prohibit the preaching of the doctrine of the Puritans. The difoontented party prefented a petition to the Houfe of Commons, in the name of the Affembly, "praying for the reftoration of the ancient patents and corporation government." But the governor, council and burgeffes, no fooner heard of the tranfaction, than they tranfmitted an explicit difavowal of it. They fent alfo an addrefs to King Charles, acknowledging his bounty and favour toward them, and earneftly de=firing to continue under his immediate protection. In 1642 , they declared in the form of an act, "that they were born under monarchy, and would never degenerate from the condition of their births, by being fubject to any other government." Nothing could be more acceptable than this act, which being prefented to the King at York, drew from him an anfwer, in which he gave them the fulleft affurances, that they fiouid be always, immediately dependent upon she crowa, and that the form of goverament fould never be changed.

They remained unalterably attached to the caule of their fove= reign. But when the Commons of England had triumphed over their European opponents, their attention was turned to the plantations; and an ordinance was paffed in October, 1650, for proe hibiting trade with Barbadoes, Virginia, Bermuda and Antego.* If recited, that "t in Virginia, and other places in America, there are colonies, which were planted at the coft, and fettled by the people, and by the authority of this nation, which ought to be fubordinate to, and dependent upon England-that they ever have been, and ought to be, fubject to fuch laws and regulations as are, or fhall be made by the Parliament-that divers acts of rebellion have been committed by many perfons inhabiting Virginia, whereby they have fet up themfelves in oppofition to this commonwealth. ${ }^{\circ}$ " It there? fore declared them "notorious robbersond traitors." Persons in POUWER GENERALIY REASON ALIKE AGAINST THOSE WHO OPQ POSE THELR AUTHORITY; AND DISPYTE FHE LEGALITY OR
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## GENERAL DESCRIPTION

Eovity of their measures, whatever might be their fentimentg When in a lower ftation, and while aggrieved by fuperiors. The ordinance authorifed the Council of State to fend a fleet thither, and to grant commiffions to proper perfons to enforce to obedience all fuch as ftood cppofed to the authority of Parliament. In confequence hereof commiffioners weie appointed, and a powerful fleet and army derached to reduce all their enemies to fubmifion. They were to ufe their endeavours, byy granting parions and by other peaceful arts, to indice the ccionifts to obey the flate of England : but it thefe means fhould prove ineffctual, then they were to employ every act of hoftulty; to free thofe fervants and flaves, of mafters oppofing the government, that would ferve'as foldiers to fubdue them; and to caufe the acts of Parliament to be executed, and juffice to be adminiftered in the name of the Commonwealth. After the arrival of the commifioners with the naval and military force, the Virginians refufed to fubmit, till articles of furrender had been agreed upon, by which it was fitpulated, "The plantation of Virginia, and all the inhabi-: tants thereof, flall enjoy fuch freedoms and privileges as belong to the free people of England. The General Affembly, as formerly, flha!l convene and tranfact the affairs of the colony. The people of Virginia hall have a free trade, as the people of England, to all places, and with all nations. Virginia fhall be free from all taxes, cuftoms, and impufitions whatfoever; and none fhall be impofed on them without confent of the General Affembly; and neither forts por cafties flall be erected, nor garrifons maintained without their confent.*"

This convention, entered into with arms in their hands, they fuppofed bad fecured the ancient limits of their country; its free trade; its exemption from taxation but by their own Affembly, and exclufion of military force from amony them. Yet in every of thefe points was this convention violated by fubfequent kings and parliaments, and other int actions of their conftitution, equally diangerous, committed. The General Affembly, which was compofed of the council of ftate an Surgeffes, fitting together and deciding. by plurality of yoices, was liplit into two houfes, by which the council obtained a feparate negative on their laws. Appeals from their fupreme court, which had been fixed by law in their General Affembly, were arbiyraily removed to England, to be there heard before the king and

[^4]cauncil. Inftead of four hundred miles on the fea coaft, they were Feduced, in the fpace of thirty years, to about one hundred miles. Their trade with foreigners was totally fuppreffed, and, when carried to Great-Britain, was there loaded with impofts. It is unneceffary, however, to glean up the fevcral inftances of injury, as feattered through American and Britifh hiltory; and the more efpecially, as, by paffing on to the acceffion of the piefent king, we fhall find Ipecimens of them all, aggravated, multiplied, and crowded within a a fmall compafs of time, fo as to evince a fixed defign of confidering the rights of the people, whether narural, conventional, or chartered, as mere nullities. The colonies were taxed internally; their effential interef facrificed to individuals in Great-Britain; their leginatures fuipended; charters annulled; trials by juries taken away; their perfons fubjected to tranfportation acrofs the Atiantic, and to trial before foreign judicatories; their fupplications for redrels thought beneath anfwer; themfelves publifhed as cowards in the councils of their mother country and courts of Europe; atmed troopa fent among them to enforce fubmifion to thefe violences ; and actual hoftlities commenced againft them No alte native was prefented but refiftance or unconditional fabmiffion. Between thefe there could be no hefitation. They clofed in the appeal to arits. They declared themfelves Independent States. They confederated together in one great republic; thus fecuring to every State the benefit of an union of their whole force. They fought-they conquered-and obtained in honourable and glorious peace:-

## KENTUCKY.

Though the war which took place between England and France in the year 1755 , terminated fo glorioully to Great-Britain, and fecurely for the then colonies, ftill we remained ignorant of the whole of the fine country lying between the high hills, which rife from Great Sandy river, approximate to the Allegany mountain, and extending down the Ohio to its confluence with the Miffifippi, and back to thofe ridges of mountains which traverfe America in a fouth-weft-by. weft direction, until they are loft in the flat lands of Weft-tiorid? However, certain men, called Long Hunters, from Virginia and North-Carolina, by penetrating thefe mountains, which ramify into a country two hundred miles over from eaft to weft, called the wifdernefs, were fafcinated with the beauty and luxuriance of the country - on the weftern fide.

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## GENERAR DESCRIPTION

A grant had been fold by the Six Nations of Indians to fome Britiff commiffioners at fort Stanwix, in 1768 , which comprehended this country, and which afforded the Americans a pretext for a right to fettle it; but thofe Indian natives who were not concerned in the grant, became diffatisfied with the profpect of a fettlement which might become fo dangerous a thorn in their fide, and committed fome maffacres upon the firft explerers of the country. However, after the expedition of Lord Dunmore, in 1774, and the battle at the mouth of. the Great Kanhaway, between the army of Colonel Lewis and the confederated rribes of Indians, they were in fome meafure quiet. The Afembly of Virginia began now to encourage the peopling that diftrict of country called Kentucky, from the name of a river which runs nearly through the middle of it. This encouragement confifted in offering four hundred acres of land, to every perfon who engaged to build a cabin, clear a piece of land, and produce a crop of Indian corn. This was called a fettlement right. Some hundreds of thefe fettlements were made; but, in the mean time, Mr. Richard Henderfon, of North-Carolina, a man of confiderable abilities, and more enterprife, had obtained a grant from the Cherokee tribe of Indians for this fame tract of country; and though it was contrary to the laws of the land for any private citizen to make purchafes of the Indians, ftill Mr. Henderfon perfevered in his intention of eftablifhing a colony of his own. He actually took poffefion of the country, with many of his followers, where he remained pretty equiet, making very little-improvement, Virginia being at that time entirely occupied with the war, which had commenced between Great-Britain and the confederated States. Mcft of the joung men from the back fettlements of Virginia and Pennfyivania, who would have migrated to this country, having engaged in the war, formed that body of men, called Rifle-men; which not only checked the growth of the fettlement, but fo dried up the fources of emigration, that it was near being annihilated by the fary of the favages.

The legality of Mr. Henderfon's claim was inveftigated by the State of Virginia in 1781 ; and though, according to exifting laws, shere could be no fort of equity in it, he having acted in contempt of the State, the legiflature, to avoid feuds or difturbances, for $\mathbf{M r}_{\text {}}$ Henderfon had confiderable influence, agreed, as an indemnification for the expenfe and trouble he had been at, that he fonld be allowed 2 tract of country twelve miles fquare, lying in the forks of the Ohio and Green rivers : a tract of his own chulling.

Virginia gave a farther reward and encouragement at this time to the firft fettlers; for the perils they had undergone in the eftablithment of their fettlement, of a tract of one thoufand acres, called a preemption right, to be laid off adjoining to the fettlement of four hundred acres, the grantee only paying office-fees for the fame. After this period (i. e. 1781) a land office was opened by the State, granting warrants. for any quantity of unlocated land, upon condition of certain fums of the depreciated continental currency being paid into the treafury, at fo much for one hundred acres. The great plenty and Iittle value of this money foon caufed the whole country to be located, which was one of the-material caufes of its rapid popula tion.
It was neceiflary, in the management of this bufineif, that care flouild be taken to prevent that perplexity and litigation, which the vague manner in which that bufinefs was executed in many inftances would neceffarily produce. For this purpofe, three principal furveyors were appointed, who were to lay, or caufe to be laid off, by their deputies, the different locations within the limits of their diltricts: this being done, and recorded in the office, the original furvey was fent to the deputy regifter's, office, there to be recorded; from thence it was fent to the principal regiker's office at Richmond, the feat of government, there to remain twelve months, in order that any perfon having a claim, by virtue of a prior location, might have an opporturity to enter a caveat, and prevent a furreptitions grant from iffuing. Commiffioners were alfo. fent to adjut the claims of fettement and pre-emption rights; by whick means order was preferved, and the governmeat fettled, of a diftrict of country, detached and feparated at that time, more than two huadred miles from anj other fettled country.

The years ${ }_{17} 7_{3}$ and 1784 broaght out vaft aumbers of emigrants froin all parts of America, particularly the lacter year, when it was fuppofed that inKentacky alone, not lefs than twelve thoufand perfons became fetters; fevertl Europearts from France, England, and Ireland, were among the numbier. In 1783,1784 , and 1785 , great part of the country was furveyed and patented, and the people in the interiot fettlemeass purfred their bufinefs in as much quiet and fafety as they could bave done in any part of Europe. Court-houfes were built in the different counties, and poads were opened for carriages, which: fejen years before häd not been feen in the country. The roads prior to that time being barely fufficient for fingle horfes; to travel on.

In 1785 , the difrit had grown fo confiderable from the great ounio ber of emigrants which hảd arrived, and that refpectability which it had acquired, that it produced a difpofition in the inhabitants to become an independent State, and to be admitted as another link in the great federal chain. A convention was immediately formed by fending deputies from the different counties, who met at Darvilile, for the purpofe of taking the matter into confideration; when it was determined, after fome debating, to petition Virginia for that purpofe. However, this bufinefs was procraffinated; for finding, though they. might feparate whenever they chofe, yet that it was optional with the legillature of Virginia to recommend them to be taken into the federal government, which they were not iikely to do, and which it was certain could not be dose without, they were content to remain as they were for that time.
The federal governiterit in the courfe of the year 1985 , undertook to lay of the country weft of the Onio, in fuch a manner as would anfwer the purpofe of felling the land, and fetting the country; but owing to a variety of caufes, their progrefs was very flow. However; fome land was fiurveged in $1 ; 56$ and 1787 , and in the latter year a fettlement was formed ufon the Mukingum, which may be looked upon as the commencement of American fettlements upon the weftern fide of the Ohio. Hil ${ }_{17}^{7} 88$ and ${ }_{17} 80$, fome farther furveying was done; but little fince has been tranfaited in thofe parts, except wors between the Indians and fetters.

## NORTH AND SOUTH-CAROLINA

We give the hifrory of the fettlement of thefe States together, as for a very confiderable period they formed but one colony. A few adventurers emigrated from the Mafiachmetts; and fettled round Cape Fear, about the time of the refforation. They conifidered mere occupancy, with a transfer from the natives, without any grant froms the king, as a good title to the lands which they poffeffed. They deemed themfelves entitied to the fame "civil privileges" as thofe of the country whence they had emigrated. For years they experienced the complicated miferies of wayt. They folicited the aid of their countrymen; and the general court, with an attention and himanity which did it the greateft honour, ordered an extenfive contribution for their relief. But the final fettlement of the province was' effected equally through the rapacity of the courtiess of Charles II. aid his own facility in rewafding thofe, to whom he was greatly in -
debted, with a liberality that coft him little. The pretence, which had been ufed on former occafions, of a pious zeal for the propagation of the gofpel among the Indians,- was fuccefsfully employed to procure a grant of the immenfe region lying between the $3^{60}$ of north latitude, and the river St. Mifatheo under the $31^{\circ}$. March 24, 1663, this territory bwas erected into a province by the name of Carolina, and conferred on Lord Clarendon, the Duke of Albemarle; Lord Craven, Lord Berk'ey, Lord Afhley, Sir George Carteretg Sir John Colleton, and Sir William Berkley, as abfolute lords proprietaries for ever; faving the fovereign allegiance due to the crown. The charter feems to have been copied from that of Maryland; fo extenfive in its powers, and fo noble in its privileges. The noblemen held their firft meeting in May; and, at the defire of the NewEngland people above-mentioned, publifhed propofals to all that would plant in Carolina. They declared, that all perfons fettling on Charles river, to the fouthward of Cape Fear, fhould have power to fortify its banks, taking the oath of allegiance to the king, and fub-. mitting to the government of the proprietaries-that the emigrants might prefent to them thirteen perfons, in order that they might appoint a governor and council of fix for three years-that an affembly, compofed of the governor, the council, and delegates of the freemen, fhould be called as foon as circumftances would allow, with power to make laws, not contrary to thofe of England, nor of any validity after the publication of the diffent of the proprietaries-that every one fhould enjoy the moft perfect freedom in religion-that during five years, every freeman fhould be allowed one hundred acres of land, and fifty for every fervant, paying only an half-penny an acre-and that the fame freedom from cuftonis, which had been confirmed by the royal charter, fhould be allowed to every one.
The proprietaries appointed Sir William Berkley, then Governor of Virginia, general fuperintendent of the affairs of the county of Albemarle, within the boundaries of which, a fmall plantation, of the New-Englanders probably, had been eftablifhed for fome years, on the north-eaftern fhores of the rive: Chowan. Sir William Berkley, repaired to the county, confirmed and granted lands on the conditions before mentioned, appointed Mr. Drummond, the firft goe vernor, and likewife other officers, and then retarned to Virginia::

The affembly being diffatisfied with the tenures by which they held their lands, petitioned the proprietaries, that the people of Albed Vol. III.

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contracted abroad." Hence this colony was long confidered as the refuge of the criminal, and the afylum of the fugitive debtor.
The proprietaries at length, diffatisfied with every fyftem which. they had hitherto devifed for the government of their province, figned in July a body of fundamental conftitutions compiled by the celebrated Locke, giving as a reafon, "That we may eftablifh a government agreeable to the monarchy of which Carolina is a part, and may avoid making too numerous a democracy."

By this edict a palatine, was to be chofen from among the proprietaries for life; who was to act as prefident of the palatine court, compofed of the whole, which was intrufted with the execution of the powers of the charter. A body of hereditary nobility was created, and denominated landgraves and caciques; the former were to be invefted with four baronies, each confifting of twelve thoufand acres, the latter to have two, containing one half of that quantity; and thefe eftates were to defcend with the dignities infeparable. There were to be as many landgraves as counties, and twice as many caciques, but no more. Two fifths of the counties, fyled figniories and baronies, were to be poffeffed by the nobility; the other three fifthe called the colonies, were to be left among the people.
The provincial legillature, dignified with the name of Parliament, was to be biennial, and to confift of the proprietaries or landgraves, or the deputy of each, of the cacique nobility and of the reprefentatives of the freeholders of every diftrit, who were to meet in one apartment, and every member to enjoy an equal vote: bat no bufinefs was to be propofed till it had been debated in the grand council, whofe duty it was to prepare bills for parliamentary confideration. The Grand Council was to be compofed of the governor, the nobility, and the deputies of the proprietaries (tbefe. being abfent;) and was invefted with the executive of the province. The Chirch of England was alone to be allowed a public maintenance by Parliament; but every congregation might tax its own members for the fupport of its own minifters; and to every one was -allowed, perfect freedom in religion. However the moit degrading flavery was introduced, by invefing in every man the property of his negro.*

## GENERAL DESCRIPTION

Thefe conftitutions, confifting of one hundred and twenty articles, and containing a great variety of perplexing regulations, were declared to be the facred and unalterable rule of government in Carolina for ever; and yet they were never altogether adopted. The parties engaged in this act of legiflation fhould have reflected, that the inhabitants had fettled on conditions which were no longer in their power to abrogate; and that in the forms of government which had been actually eftablifhed, the people had acquired an intereft which could not be taken away without their confent.

A number of emigrants were fent over in January, 1670 , under William Sayle, Efq. appointed governor of that part of the coalt which lies fouth-weft of Cape Carteret, to form a colony at PortRoyal. They arrived fafe; and as it was found impracticableto conform to the conftitutions, it was determined to keep as clofe to them as poffible. Sayle dying, Sir John Yeamans had his command extended to and over this colony, in Auguft, 167 . This year feveral planters reforted from Clarendon on the north, and Port-Royal on the fouth, to the banks of Ahley river, for the convenience of. pafture and tilliage, : and laid on the firft high land the foundation of old Charlefton. The proprietors promulgated temporary laws, till through a fufficient number of inhabitants, gegernment could be adminiftered according to the fundamental conftititions. The temporary laws were of no long duration, being derided by a people without whofe confent they had been eftablifhed.

In May, $16 \% 4$, Jofeph Weft, Efq. was appointed governor of the fouthern colony, in the room of Sir John Yeamans, with whofe conduet the proprietaries were diffatisfied. But the difficulty of eftab. lifhing the colony was not overcome for years; not till people repaired to it at their own expenfe, and men of eftate ventured thither under the full perfuafion of being fairly treated. In expectation of fuch treatment, the Diffenters being haraffed by perfecutions in England, and dreading a Popifly fucceffor, emigrated to Carolina in great numbers, and made a confiderable part of the inhabitants. They acquired the honour of introducing religion into the province, white they frengthened it alfo by their perfonal acceffions. But the promifing appearances of the country inviting over many of a very difo ferent ftamp, after a while difturbances followed.

The planters being informed that the Oyfter Point, fo delightfully formed by the confluence of the rivers Afhley and Cooperf; was more convenient than what was fixed upon eight years before, and the
proprietaries encouraging their inclination, they began to remove, and in the year 1680, laid the foundation of the prefent Charleston, and built thirty houfes. It was inftantly declared the port for the purpofes of traffic, and the capital for the adminiftration of government. It was long unhealthy; but the adjacent country being now cleared and cultivated, it is allowed to enjoy the moft falubrious air of Carolina.

Though the province had been formed into manors and baronies, it was not till 1682 that it was divided into three counties. In the autumn of this year, Governor Weft held a-Parliament, and afterward immediately refigned his adminiftration to Mr. Jofeph Moreton. Thence commenced a reiterated change of governors. Kyrle, Weft, Quarry, and Moreton, were fucceffively appointed. There was a fimilar change of every public officer. Thefe changes produced turbulency and faction, and the feenes of anarchy produced by thefe meafures were not changed, nor the condition of the colony mended, by the arrival of Governor Seth Sothel, in 1683 , who was fent in hope of quieting the diforders by his authority, as he had purchafed Lord Clarendon's fhare of the province. He was guilty of fuch bribery, extortion, injuftice, rapacity, breach of truft, and difobedience of orders, for five years, that the inhabitants, driven almoft to defpair, feized him with a view of fending him to England to anfwer to their complaints; but upon his intreaties, and offering to fubmit their mutual accufations to the next Affembly, they accepted his propofal. The Affembly gave judgment againft him in all the above-mentioned particulars, and compelled him to abjure the country for twelve months, and the government for ever.

Charlefton having been made the provincial port, the firft collector was eftablifhed there in 1685 . The governor and council were at the fame time ordered, "Not to fail to fhow their forwardnefs in affifting the collection of the duty on tobacco tranfported to other colonies, and in feizing fhips that prefumed to trade contrary to the acts of navigation." Little regard was paid to orders fo contrary to the views of every one. An illicit trade was not only practifed, but juftified under a claufe of the patent, which the people confidered of fuperior force to the law. Though the royal grant of 1665 was paffed fubfequent to the act of navigation, the prefent exemption was infifted upon with the fame firit, that it was contended during this reign; that a king of England may difpenfe with the law.

The principle of the Carolinians, and the docirine fo fafnionable at the court of James, were therefore exactly the fame.

James Colleton, Efq. a proprietary, was appointed governor-in Auguft, 1686. The next year he called an Affembly, in which he and -his party took upon them to pafs fuch laws as loft him the affections of the people. : During the ferments that followed, Seth Sothel, whom we have feen banifhed from Albemarle, fuddenly arrived at Charleston. Countenanced by-a powerful party, and prefuming on his powers as a proprietary, he feized the reins of goveroment in 1690 , notwithftanding the oppofition of the governor and council. A general return of members was procured, who readily fanctioned by' their votes whatever was dictated by thofe that had thus acquired power. Colleton, whofe conduct had been far from blamelefs, was inftantly impeached of high crimes and mifdemeanors, difabled from holding any office, and banifhed. Others were fined, imprifoned, and expelled the province. The proprietaries appointed a new governor, and in the year, 1692 , upon the requifition of the Carolinians, abrogated Mr. Locke's fyftem of laws, the fundamental conftitutions, which, far from having anfwered their end, introduced only diffatisfaction and diforders, that were not cured till the final diffolution of the proprietary government.* The operation and fate of Mr. Locke's fyftem may convince us of this truth, that a perfon ${ }^{66}$ may defend the principles of liberty and the rights of mankind, with great abilities and fuccefs; and yet after all, when called upon to produce a plan of legiflation, he may aftonifl the world with 2 fignal abfurdity." $\dagger$

Governor Archdale arrived at Carolina in Auguif, 1695 : he managed with great prudence, and fucceeded fo well that the Affembly voted him an addrefs of thanks. He was fucceeded by Jofeph Blake, Efq. whofe fentiments were fo liberal, that though a Diffenter, be prevailed with the Affembly to fettle one hundred and fifty pounds per annum upon the Epifcopal minifter at Charlefton, for ever, and likewife to furnifh him with a good houfe, a glebe, and two fervants. A very different fpirit wrought in the Earl of Bath, when he fucceeded to the power of palatine, and became eldeft proprietary, in inor: being a zealot for the Church of England, he was ambitious of ef-

[^5]tablifhing its worfhip, and excluding non-epifcopalians from a fhare in the government of Carolina; a fimilar principle was at that time too prevalent in England. His views were feconded by the pliability of Governor Moor, who was after a while fucceeded by Sir Nathaniel Johnfon. Then the Affembly being convened, a bill was brought in for the more effectual prefervation of the government, by requiring all perfons chofen members of the Affembly, to conform to religious worhip, and receive the facrament of the Lord's Supper, according to the ufage of the Church of England. By this act, all Diffenters were difqualified from fitting in the Affembly, though legally elected, and the candidate who had the greateft number of voices, after the difqualified Diffenter, was to be admitted. The paffing of this act was unconftitutional and oppreffive. Another bill was paffed for eftablifhing religious worfhip in the province, ace cording to the Church of England, and alfo for the erecting of churches, the maintenance of minifters, and the building of conveniest parfonages. Both thefe atts were afterward figned and fettled by John Lord Granville, then palatine, for himfelf and the other proprietors. In confequence of the laft act, many oppreffions were committed by the government againft the Diffenters, who laboured under thefe and other grievances, till the matter at length was brought before the Houfe of Lords, who, having fully weighed the fame, addreffed the queen in favour of the Carolinians, and the laws complained of in 1706 were declared null and void.

About the year 1710, a number of Palatines from Germany, who had been reduced to circumftances of great indigence by a calamitous war, took up their refidence in this State. The proprietors of Ca rolina knowing that the value of their lands depended on the ftrength of their fettlements, determined to give every poffible encouragement to fuch emigrants. Ships were accordingly provided for their tranfportation, and initructions given to Governor Tynte, to allow one hundred acres of land for every man, woman, and child, free of quit rents for the firiten years; but at the expiration of that term, to pay one penny per acre annual rent, for ever, according to the ufages and cuftoms of the province. Upon their arrival GovernoTynte granted them a tract of land in North-Carolina, fince called Albemarle and Bath precincts, where they fettled, and flattered themfelves with having found in the hideous wildernefs, a happy retreat from the defolations of a war which then raged in Europe,

In the year 1712, a dangerous confpiracy was formed by the Coree: and Tufcorora tribes of Indians, to murder and expel this infant colony. The foundation for this confpiracy is not known; probably they were offended at the incroachinents upon their -hunting ground. They managed their confpiracy with great cunning and profound fecrecy. They furrounded their principal town with a breaft work to fecure their families. Here the warriors convened to the number of twelve hundred. From this place of rendezvous thes fent out fimall parties, by different roads; who entered the fettlement under the malk of friendfhip. At the change of the full moon all of them had agreed to begin their murderous operations the fame night. When the night came, they entered the houfes of the planters, demanding provifions; and pretending to be offended, fell to murdering men, women, and children, without mercy or diftinction One hundred and thirty-feven fettlers, among whom were a Swifs baron, and almoft all the poor Palatines that had lately come into the country, were flaughtered the firit night. Such was the fecrecy and difpatch of the Indians in this expedition, that none knew what had befallen his neighbour until the barbarians had reached his own door. Some few, however $\mathrm{g}_{\mathrm{e}}$ efcaped, and gave the alarm. The militia affembled in arms, and kept watch day and night, until the news of the fad difatter had reached the province of South-Carolina. Governor Craven loft no time in fending a force to their relief. The Affembly voted four thoufand pounds for the fervice of the war. A body of fix hundred militia, under the command of Colonel Barnwell, and three hundred and fixty-fix Indians of different tribes, with different commanders, marched with great expedition through a hideous wildernefs to their affiftance. In their firft encounter with the Indians they killed three hundred and took one hundred pri-foners-After this defeat, the Tufcororas retreated to their fortified town, which was fhortly after furrendered to Colonel Barnwell. In this expedition it was computed that near a thoufand Tufcororas were killed, wounded, and taken. The remainder of the tribe foon after abandoned their country, and joined the Five Nations, with whom they have ever fince remained. After this, the infant colony
 when feven of the proprietors, for a valuable confideration, vefted $\rightarrow$ their property and jurifdiction in the crown, and the colony was dirided into two íeparate provinces, by the name of North and SouthCarolina, and their prefent limits eftablifhed by an order of

George II. From this period to the revolution in 1776 , the hiftory of North-Carolina is unpublifhed, and of courfe, in a great meafure, unknown, except to thofe who have had accefs to the records of the province. Some of the moft important events that have fince taken place, have, however, been already mentioned in the general hiftory of the United States.

South-Carolina, from the period of its becoming a feparate colony, began to flourifh. It was protected by a governinent, formed on the plan of the Englifh conftitution. Under the foftering care of the Mother Country, its growth was aftonifhingly rapid. Between the years 1763 and 1775 , the number of inhabitants was more that doubled. No one indulged a wifh for a change in their political conftitution, till the memorable ftamp act paffed in 1765 .

From this period till ${ }_{1775}$, as we have feen, various attempts were made by Great-Britain to tax her colonies, without their confent; thefe attempts were invariably oppoied. The Congrefs, who met at Philadelphia, unanimounly approved the oppofition, and on the 19th of April war commenced.

During the vigorous conteft for independence this State was a great fufferer. For three years it was-the feat of war. It feels and daments the lofs of many refpectable citizens, who fell in the glorious ftruggle for the rights of man. Since the peace, it has been emerging from that melancholy confufion and poverty, in which it was generally involved by the devaftations of a relentlefs enemy. The inhabitants are faft multiplying by emigrations from other States; the agricultural interefts of the State are reviving; commerce is flourifhing; economy is becoming more fafhionable; and fcience begins to fread her falutary influences amongft the citizens. And under the operation of the prefent government, this State, from her natural, commercial and agricultural advantages, and the abilities of her leading characters, promifes to become one of the richeft in the Union.*

## TERRITORY.S. OF THE OHIO.

The eaftern parts of this diftrict were explored by Coloeels Wood, Patton, Buchanan, Captain Charles Campbell and Dr. T. Walker, each of whom were concerned in large grants of lands from the go-

[^6]Vol. III.
E
. $\therefore$ 'vermment
vermment, as early as between the years of 1740 and 1750 . In 1754; at the commencement of the French war, not more than fifty famitices had fettled here, who were either deftroyed or driven off by the Indians before the clofe of the following year. It remained uninhabited till 1765 , when the fettlement of it re-commenced; and, in ${ }^{1773}$, fuch was the valf acceffion of emigrants, that the country, as far weft as the long ifland of Holttein, an extent of more than one hundred and twenty miles in length from eaft to weft, was welt peopled.

In 17.74; a war broke out with the corthern Indians over the Ohio, which iffued in their fuing for peace, which was granted-them on eafy terms.
The year 1776 was fignalifed by a formidable invafion of the Cherokees, contrived by the Britifh fuperintendant; Mr. Stemart. Their' intention was to depopulate the country as far as the Kanhawa, becaufe this brave people kad rejected, with a noble firmnefs and indignation, the propofals of Henry Steuart and Alexander Camerfon for joining the Britifh ftandard, and were almoft unanimous in their refolution to fupport the meafures of Congrefs. This invafion terminated in a total defeat of the Indians.

In 1780, the Tories of the weftern parts of North Carolina and Virginia, emboldened by the reduction of Charleftor by the Britifh, embodied in armed parties, and proceeded towards the lead mines on the Kanhawa, to take poffeffion of fome lead ftores at that place, but were defeated in their attempt by the vigilance of Colonel $A$. Campbell and Colonel Cbockett.
Various other movements took piace in the courfe of this year, but the moft interefting and brilliant was the battle of King's mountain, which was fought and won by about nine hundred mountaiacers, as the veteran fons of this diftrict were called, commandeak by the brave General William Campbell, ayainft a party of the Britin under the command of Colonel Fergufon. Upwards of one thoufand one hundred of the enemy were either killêt, wounded, or taken; among the former was Colonel Fergufon, an officer of diftinguifhed merit.* In aroufing the inhabitants, iffuing orders, collecting the forces; and in arranging and animating the men, at the place of rendezvous, previous to this fuceefsful expedition, muck

[^7]was done by the activity and decifion of Colonel Arthur Campbell, the fenior officer o: the-diftrict, to whom much praife is due.

Soon after this, to defeat a meditated invalion of the Cherokee Indians, which was ditcovered by Nancy $\mathrm{W}_{\mathrm{ARD}}$, an Indian woman, called, from this circumitance, the weftern Pocabonta, Colonel A. Campbell, with feven hundred mountaineers, well mounted, penetrated far into the Cherokee country, introduced the new and fucceffful mode of fighting Indians on horfeback, accomplifhed his defigns, and returned in lanuary, i 78 II .

In the celebrated battle at Guildford, March 15, 1781 , the mountaineers, under General W. Campbell, who on that day commanded with great applaufe the left wing of the army, behaved with their ufual gallantry. This nearly clofed the active part which the mountain men took in the American war.
In 1782, the legiflature of North-Carolina appointed commiffioners to explore the weftern part of the State, by which is meant the Fands included in Davidfon county, thofe between the fouth boundary of this county, and thofe between the rivers Miffifippi and Tenneffee, and their orders were to report to the fucceeding legiflature, which part was beft for the payment of the bounty promifed to the officers and foldiers of the continental line of that State; and they accordingly did explore the before-defcribed tract of country, and reported to the legifature in the fpring of the year 1783. A few families had fettled in this country in the year $1 \% 80$, under the guidance of Colonel James Robertfon, on Cumberland river, and called the place Nafhville, in honour of Brigadier-general Francis Nafh, who fell at German town in theeyear 17\%7; but their numbers were rivial until the year 1783 , after the peace had taken place, and after on act had paffed, directing the military or bounty warrants of the fficers and foldiers to be located in this county. Thefe circumfances induced many officers and foldiers to repair immediately hither, to fecure and fettle their lands; and fuch as did not chufe - go, fold their warrants to citizens who did go: in confequence of bis, many people from almoft every State in the Union became purhafers of thefe military warrants, and are fince become refideats of bis county; and many yaluable and opulent families have removed o it from the Natches. Colonel Robertfon, when he fettled at Fafliville, was upwards of two hundred miles dititant, to the weftard, from any other fettlement in his own State, and was equally flant from the then fettled parts of Kentucky. Heace it will
readily be fuppofed, that himfelf and party were in danger every hour of being cut off by the Indians, againft whom his principal fecurity was, that he was as far diftant from them as from the white people; and flender as this fecurity may appear, his party never fuftained from them any damage, but what was done by parties of hunters, who happened to find out his fettlement.

In $17 S_{5}$, in conformity to the refolves of Congrefs of April 23, 3784, the inhabitants of this diftrict effayed to form themfelves inta a body politic, by the name of the "State of Frankland;" but, differing among themfelves as to the form of government, and about other matters, in the iffue of which fome blood was fhed, andbeing oppofed by fome leading characters in the eaftern parts, the icheme was given up, and the inhabitants remained in general peaceable until I790; when Congrefs eftablifhed their prefent government. Since this period, fome late incurfions of the Indians excepted, the inhabitants have been peaceable and profperous.

GEORGIA.
The fettlement of a colony between the rivers Savannah and Ala. tamaha was meditated in England in 1732, for the accommodation of poor people in Great-Britain and Ireland, and for the farther fecurity of Carolina. Private compaffion and public fpirit confpired to promote the benevolent defign. Humane and opulent men fug. gefted a plan of tranfporting a number of indigent families to this part of America, free of expenfe. For this purpofe they applied to the King, George the Second, and obtained from him letters patent, bearing date June 9, 1732, for legally carrying into execution what they had generoufly projected. They called the new province Georgia, in honour of the King, who encouraged the plan. A corporation, confifting of twenty-one perfons, was conftituted by the name of the truftees for fettling and eftablifing the colony of Georgia, which was feparated from Carolina by the river Savannah. The truftees having firft fet an example themfelves, by largely contributing to the fcheme, undertook alfo to folicit benefactions from others, and to apply the money towards clothing, arming, pur chafing utenfils for cultivation, and tranfporting fuch poor people as fhould confent to go over and begin a fettlement. They did not confine their charitable views to the fubjects of Britain alone, but wifly opened a door for the indigent and oppreffed Proteftants of others
other nations. To prevent a mifapplication of the money, it wwas depofited in the Bank of England.

About the middle of July, 1732, the truftees for Georgia held their firf meeting, and chofe Lord Percival prefident of the corporation, and ordered a common feal to be made. In November following, one hundred and fixteen fettlers embarked for Georgia, to be conveyed thither free of expenfe, furnifhed with every thing requifite for building and for cultivating the foil. James Oglethorpe, one of the truftees, and an active promoter of the fettlement, embarked as the head and director of thefe fettlers. They arrived at Chariefton early in the next year, where they met with a friendly reception from the governor and council. Mr. Oglethorpe, accompanied by William Bull, fhortly after his arrival vifited Georgia, and after reconnoitring the country, marked the fpot on which Savannah now ftands, as the fitteft to begin a fettlement. Here they accordingly began and built a fmall fort, and a number of fmall huts for their defence and accommodation. Such of the fettlers as were able to bear arms were embodied, and well appointed with officers, arms, and ammunition. A treaty of friendmip was-concluded between the fettlers and their neighbours, and the Creek Indians, ant every thing wore the afpect of peace and future profperity.

In the mean time the truftees of Georgia had been employed in framing a plan of fettlement, and eftablifhing fuch public regulations as they judged moft proper for anfwering the great end of the corporation. In the general plan they confidered each inhabitant both as a planter and as a foldier, who muft be provided with arms and ammunition for defence, as well as with tools and utenfils for cultivation. As the ftrength of the province was the object in view, they agreed to eftablifh fuch tenures for holding lands in it, as they judged moft favourable for military eftablifhment. Each tract of land granted was confidered as a military fief, for which the pof. feffor was to appear in arms, and take the field, when called upon for the public defence. To prevent large tracts from falling, in procefs of time, to one perfon, they agreed to grant their lands in tail male, in preference to tail general. On the termination of the eftate in tail male, the lands were to revert to the truft; and fuch lands thus reverting were to be granted again to fuch perfons, as the common council of the truft fhould judge moft advantageous for the colony $;$ only the truftees in fuch a cafe were to pay fpecial regard to the daughters of fuch perfons as had made improvements on their lots, efpecially
efpecially when not already provided for by marriage. The wives ` of fuch perions as mould furvive them, were to be, during their Iives, entitled to the manfion-houte, and one half of the lands improved by their hufbands. No man was to be permitted to depart the province without liceice. If any of the lands granted by the truftees were not cultivated, cleared and fenced round about with a worm fence, or pales fix feet high, within eighteen years from the date of the grant, fuch part was to revert to the truft, and the grant with refpect to it to be void. All forfeitures for non-refidences, high treafons, felonies, \&c. were to the truftees, for the ufe and benefit of the colony. The use of negroes to be absolutely prohibiten, and alfo the importation of rum. None of the coEonifs were to be permitted to trade with the Indians, but fuch as fhould obtain a pecial licence for that purpofe.

Tisfe were fome of the fundamental regulations eftablifhed by the truites of Georgia, and perhaps the imagination could fearcely have framed a fyitem of rules, worfe adapied to the circumflances and fituation of the poor fettiers, and of more pernicious confequence to the profperity of the province. Yet, although the truftees were greatly miftaken with refpect to the phan of fettlement, it muft be acknowledged their views were generous. As the people fent out by them were the poor and unfortunate, who were to be provided with neceflaries at their public ftore, they received their lands upon condition of cultivation, perfonal refidence, and defence.

Silk and wine being the chief articles intended to be raifed, they judged negroes were not requifite for thefe purpofes. As the cobony was defigned to be a barrier to South-Carolina againft the Spanifh fettlement at Auguftine, they imagined that negroes would rather weaken than ftrengthen it, and that fuch poor colonifts would rus in debt, and ruin themfelves by purchafing them. Rum was judged pernicious to health, and ruinous to the infant fettement. A free trade with the Indians was a thing that might have had a tendency to have involved the people in quarrels and troubles with the powerful fawages, and have expofed them to danger and deftruction. Such were, probably, the merives which induced the truftees to im, pofe fuch footitr and fidiculous reftricions on their colony. For by yranting their-fmall eftates in tail male, they drove the fettlens from Georgia, who foon found that abundance of lands could be obtained in America upon a larger fcale, and on much better terms. By the prohibition of negroes, an act which we muft, however, have
praifed if it had originated in principles of humanity, they tensered it impracticable, in fuch a climate, to make any impreffion oa the thick forefts, Europeans being utterly unqualified for the heavy zafk. By their difcharging a trade with the Wert-Indies, they deprited the colonifts of an excellent and convenient market for their lumber, of which they had abundance on their lands. The truftees, like other diftant leginators, were liable to many errors and miftakes; and, however good their defign, their rules were fownd improper and impractiçable. The Carolinians plainly perceived that they would prove infurmountable obftacles to the progrefs and profperity of the colony, and therefore, from motives of pity, began to inviic the poor Georgians to come over Savannah river and fettle in Carolina, being convinced that they could never fucceed under fuch impolitic and oppreffive reftrictions.

Befides the large fums of money which the truftees had expended for the fettlement of Georgia, the Parliament had alfo granted, der ring the two laft years, thirty-fix thoufand pounds towards carrying into execution the purpofe of the corporation. Bat after the reprefentation and memorial from the legillature of Carolina reacied Britain, the nation confidered Georgia to be of the utmoft importance to the Britill fettlements in America, and began to make ftill more vigorous efforts for its fpeedy population. The firf embarkztions of poor people from England, being collected from towns and cities, were found equally as idle and ufèlefs members of fociety abroad as they had been at home. - An hardy and bold race of men, inured to rural labour and fatigue, they were perfaaded, would be much better adapted both for cultivation and defence. To find men poffeffed of thefe qualifications, they turned their eyes to Germany and the Highlands of Scotiand, and refolved to fend over a number of Scotch and German labourers to their infant province. When they publifhed their terms at Invernefs, an hundred and thirty Highlanders immediately accepted them, and were tranfported to Georgia: A townthip on the river Alatamaha, which was confidered as the boundary between the Britifh and Spanifh territories, was allotted for the Highlanders, in which dangerous fituation they fettled, and built a torn, which they called New-Invernefs. About the fame time an hundred and feventy Germans embarked with James Oylethorpe; and were fixed in another quarter; fo that, in the fpace of three years, Georgia received above four hundred Britifh fubjects; and

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about an hundred and feventy foreigners. Afterwards feveral adventurers, both from Scotland and Germany, followed their countrymen, and added farther ftrength to the province, and the truftees flattered themfelves with the hope of foon feeing it in a promifing condition.
Their hopes, however, were vain: their injudicious regulations and reftrictions, the wars in which they were involved with the Spaniards and Indians, and the frequent infurrections among themfelves, threw the colony into a ftate of confufion and wretchednefs; their oppreffed fituation was reprefented to the truftees by repeated complaints; till at length, finding that the province languifhed under their care, and weary with the complaints of the people, they, in the year 1752, furrendered their charter to the King, and it was made a royal government. In confequence of which, his Majefty appointed John Reynolds, an officer of the navy, governor of the province, and a legiflature, fimilar to that of the other royal governments in America, was eftablifhed in it. Great had been the expenfe which the Mother Country had already incurred, befides private benefactions, for fupporting this colony; and fmall had been the returns yet made by.it. The veftiges of cultivation were fcarcely perceptible in the forefts, and in England all commerce with it was neglected and defpifed. At this time the whole annual exports of Georgia did not amount to ten thoufand pounds fterling. Though the people now poffeffed the fame liberties and privileges which were enjoyed by their neighbours, yet feveral years elapfed before the value of the lands in Georgia was known, and that fpirit of induftry broke out in it, which afterwards diffufed its happy influence over the country.
In the year 1740, the late Rev. George. Whitefield founded an orphan houfe academy in Georgia, about twelve miles from Savannah. For the fupport of this, he collected large fums of money from all denominations of Chriftians, both in England and America. A part of this money was expended in erecting proper buildings to accommodate the fludents, and a part in fupporting them. In 1768 it was propered, that the orphan houfe fhould be erected into a college; whereupon Mr. Whitefield applied to the Crown for a charter, but, in confequence of fome difpute, the affair of a charter was given up, and Mr. Whitefield made his affignment of the orphan houfe, is truff, to the late Countefs of Huntingdon. Mr.

## OF THE SOUTHERN STATES.

Whitefield died at Newbury port, in New-England, September 30, 1770, in the fifty-fixth year of his age, and was buried under the Prefhyterian church in that place.

Soon after his death, a charter was granted to his inftitution in Georgia, and the Rev. Mr-Piercy was appointed prefident of the college. Mr. Piercy accordingly went over to execute his office, but, unfortunately, on the 3oth of May, 1775, the orphan houfe building caught fire, and was entirely confumed; except the two wings, which are ftill remaining. The American war foon after came on, and put every thing into confufion, and the funds have ever fince lain in an unproductive ftate. It is probable, that the college eftate may hereafter be fo incorporated with the univerfity of Georgia; as to fubferve the original and pious purpofes of its founder.

From the time Georgia became a royal gorernment, in $175^{2}$, till the peace of Paris, in $I_{7} 63$, the ftruggled under many difficulties, arifing from the want of credit from friends; and the frequent mo-. leftations of enemies. The good effects of the peace were fenfibly felt in the province of Georgia. From this time it began to flourifh, under the fatherly care of Governor Wright.

During the late war Georgia was over-run by the Britifh troops, and the inhabitants were obliged to flee into the neighbouring States for fafety. The fufferings and loffes of its citizens were as great, in proportion to their numbers and wealth, as in any of the States. Since the peace the progrefs of the population of this State has been. rapid: its growth in improvement and population has, however, been checked by the hoftile irruptions of the Creek Indians, which have been frequent, and very diftreffing to the frontier inhabitants.*

Having thus briefly fketched the hiftory of the fettlement of the States comprèhended in this divifion, we now proceed to a more particular deffription of them.

[^8]
been made much in the fame way; of courfe the foil mult be fimilar, and the natural growth not remarkably different.
The ground is uniformly level and low in moft of the counties on the eaftern fliore, and confequently covered in many places with ftagnant water, except where it is interfected by numerous creeks. Here alfo are large tracts of marfh, which, during the day, load the atmofphere with vapour, that again falls in dew in the clofe of the fummer and fall feafons.

Cheiapeak bay divides this State into the eafrern and weftern divifions. This bay, which is the largeft in the United States, has been already defcribed.* It affords many good fifféries, and is re-$m_{u}$-rkable for the excellence of its crabs, and alfo for a particular fpecies of wild duck, called canvas back. In a commercial view, this bay is of immenfe advantage to the State; it receives a number of large rivers. From the eaftern fhore in Maryland, among other fmaller ones, it receives the Pocomoke, Nantikoke, Choptank, Chefter and Elk rivers; from the north, the rapid Sufquehannah; and from the weft, the Patapico, Severn, Patuxent and Potomack, half of which is in Maryland, and half in Virginia. Except the Sufquehanoah and Potomack, thefe are finall rivers. Patapico river is but about thirty or forty yards wide at the ferry, juft before it empties into the bafon upon which Baltimore ftands; its fource is in York county, in Pennfylvania; its courfe is fouthwardly till it reaches Elkridge landing, about eight niles weftward of Baltimore; it then turns eaftward, in a broad bay-like ftream, by Baltimore, which it leaves on the north, and paffes into the Chefapeak.

The entrance into Baltimore harbour, about a mile below Fell's Point, is hardly piftol fhot acrofs, and of courfe may be eafily defended againft naval force.
Severn is a floort, inconfiderable river, paffing by Annapolis, which it leaves to the fonth, emptying, by a broad month, into the Chefapeak.

Patuxent is a larger river than the Patapico; it rifes in Ann-Arundel county, and runs fouth-eaftwardly, and then eaft into the bay, fifteen or twenty miles north of the mouth of the Potomack. There are alfo feveral fmall rivers, fuch as the Wigheocomico, Eaftern Branch, Monocafy and Conegocheague, which empty into the Potomack from the Maryland fide.

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## SOIL AND PRODUCTIONS.

The foil of the good land in Maryland is of fuch a nature and quality as to produce from twelve to fixteen bufhels of wheat, or from tuenty to thirty buflels of Indian corn per acre. Ten buhhels of wheat, and fifteen bufhels of corn per acre, may be the annual average crops in the State at large-
Wheat and tobacco are the flaple commodities. Tobacco is generally cultivated in fets, by negroes, in the following manner: The feed is forn in beds of fine mould, and tranfplanted the beginning of May; the plants are fet at the diftance of three or four feet from each other, and are hilled and kept continually free of weeds : when as many leaves have fhot out as the foil will nourifh to advantage, the top of the plant is broken off, which prevents its growing higher: it is carefully kept clear of worms, and the fuckerss. which put out between the leaves, are taken off at proper times, till the plant arrives at perfection, which is in Auguft : when the leaves turn of a brownifh colour, and begin to be fpotted, the plant is cut down and hung up to dry, after having fweated in heaps one night. When it can be handled without crumbling, which is always in moift weather, the leaves are ftripped from the ftalk, and tied in bundles, and packed for exportation in hogheads, containing eight or nine hundred pounds. No fuckers nor ground leaves are allowed to be merchantable. An induffrious ferfon may manage fix thoufand plants of tobacco, which yield a thoufand pounds, and four acres of Indian corn.
In the interior country, on the uplands, confiderable quantities of ' hemp and flax are raifed.- As long ago as 1751 , in the month of October, no lefs than fixty waggons loaded with flax feed came down to Baltimore from the back country.

Two articles are faid to be peculiar to Maryland, viz. the genuine wbite wheat, which grows in Kent, Queen Ann's and Talbot counties, on the eaftern flore, and which degenerates in other places, and the bright kite's foot tobacco, which is produced at Elkridge, on the Patuxent, on the weffern fhore.

Among other kind of timber is the oak, of feveral kinds, which is of a ftraight grain, and eanily rives into flaves, for exportation. The black walnut is in demand for cabinet, tables and other furniture. The apples of this State are large; but mealy; the peaches
plenty and good: from thefe the inhabitants diffil cyder and peach brandy.

In Worcefter county a fpecies of grape vine, of a peculiar kind, has been difcovered, by a Mr. Jones, of Indian river. The bark is of a grey colour, very fmooth, and the wood of a firm texture. They delight in a high fandy foil, but will thrive very well in the Cyprus fwamps. The leaf is very much like that of the Englifh grape vine, fuch as is propagated in the gardens near Philadelphia for table ufe.

The grape is much larger than the Englifh, of an oval Thape, and, when quite ripe, is black, adorned with a number of pale red feecks, which, on handling, rub off. The pulp is a little like the fox grape, but in tafte more delicious. Thefe grapes are ripe in October, and yield an incredible quantity of juice, which, with proper management, would no doubt make a valuable wine.

Mr . Jones employed a perfon to 'gather about three bufhels and one peck of them when ripe, and immediately had them preffed; which, to his furprife, yielded twelve gallons of pure juice, though a good quantity muft have been loft in the preffing.

In about twelve hours after putting the juice in a keg it began to ferment, and he fuffered it to go on till it got to be fo violent, that it might be heard all over a large room. It continued in that fate for three days. He then checked it, fearing it might turn acid, though, he fays, he was afterwards convinced, that if he had fuffered it to ferment as long again, it would have feparated the vinous parts from the flefhy, and given greater finenefs to the liquor.

After this it was racked off, and before cold weather buried in the garden; the top about fix inches under ground ; where having continued till the fummer following, he could not difcover that it had in the leaft altered, either in tafte or colour. He obferves farther, that, after eating a quantity of them, or drinking the juice, they leave an aftringency, as claret is apt to do.

There is an immenfe quantity of thefe vines growing on the beach, open to the fea; and they are alfo found in great plenty upon the ridges and in the fwamps. Since their difcovery Mr. Jones has tranflanted a number of them into his vineyard, from which, in a year or two more, he expects to make a wine much better than is commonly imported.

The forefts abound with nuts of various' kinds, "which are collectively called maft; on this maft great numbers of fwine are fed, which run wila in the woods: thefe iwine, when fatted, are caught,
killed, barrelled, and exported in great quantities. This traffe forv merly was carried on to a very confiderable extent- Mines of iron ore are found in feveral parts of this:State, of a fuperior quality.

## CIVIL DIVISIONS AND CHIEF TOWNS.

This State is divided into nineteen counties, eleven of which are on the weftern fhore of Chefapeak bay, viz. Hartford, Baltimore, Ann-Arundel, Frederick, Allegany, Wafhington, Montgomery, Prince George, Cävert, Charles and St. Mary's; and eight on the eaftern fluore, viz. Cecil, Kent, Queen Ann, Caroline, Talbot, Somerfet, Dorchefter and Worcefter. The principal towns in this State are as follow:

## ANNAPOLIS.

Annapolis (city) is the capital of Maryland, and the wealthieft town of its fize in America: it is fituated at the mouth of Severn sizer, and was originally known by that name, which was changed for its prefent one in 16gt, when it was made a port town, and the refidence of a collector and naval officer : it fands on a healthy fpot; thinty miles fouth of Baltimore, in north latitude $29^{\circ} 25^{\prime}$ : it is a Tlace-of but little note in the commercial world. The houfes, about two hubdred and fixty in number, are generally large and elegant indicative of great weatich the number of inhabitants does not exceed two thoriand. The defign of thofe who planned the city was to Gave the whole in the form of a circle, with the freets like radi;; beginning at the center whefe the State Houfe ftands, and thence diverging in every direction. The principal part of the buildings. are arranged agreeably to this awkward and ftupid plan. It has a State Houre, which is an elegant building.

## BSLTMMORE.

Baltimore has had the moft rapid growth of any town on the continent, and is the fourth in fize and the fifth in trade in the United States.* It lies in latitude $39^{\circ} 21^{\prime} \geqslant$ cn the north fide of Patapta piver, around what is called the Bason, in which the water, at common tides, is about five or fix feet deep. Baltimore is divided into the town and Fell's point by a creek, over which are two-bridges. At Fell's point the water is deep enough for thips of bưrden; but

[^10]mall veffels only go up to the town. - The fituation of the town is low, and was formerly unhealthy; but the increafe of houfes, and, of courfe, of fmoke, the tendency of which is to deftroy or difpel damp and unwholefome vapours, and the improvements that have been made, particuiarly that of paving the ftreets, have rendered it tolerably healthy. The houfes were numbered in $178_{7}$, and found io be one thoufand nine hundred and fifty-five, about twelve hundred of which were in the town, and the reft at Fell's point; the prefent number is about two thoufand three hundred. The number of warehoufes and ftores are from one handred and eighty to two hundred, and of churches nine, which belong to German Calvinifts and Lutherans, Epircopalians, Prefbyterians, Roman Catholics, Baptifts, Methodifts, Quakers and Nicolites, or New Quakers. The number of inhabitants in the tomn and precincts, according to the cenfus of i 790 , was thirteen thoufand five hundred and three; they have greatly increafed fince that time.

Market-frreet is the principal ftreet in the torn, and runs nearly eaft and weft a mile in length, parallel with the watcr: this is croffed by feveral other, ftreets leading from the water, a number of which, particularly Calvert, South and Gay frreets, are well built. North and eaft of the tom the land rifes and affords a fine profpect of the tomn and bay. Belvidera, the feat of Colonel Howard, exhibits a fine landicape-the town-the point-the flipping, both in the báfon and at Fell's point-the bay, as far as the eye can reachthe riging ground on the right and left of the barbour-a grove of trees on the declivity at the right-a ftream of water breaking over the rocks at the foot of the hill on the left-all confpire to complete the beauty and grandeur of the profpect.

## GEORGE-TOWN:

George-town ftands on the bank of the Potomack river, about ani handred and fixty miles from its entrance into Chefapeak bay. The ground on which it ftands is very broken, being a clufter of little hills, which; though at prefent elevated confiderably above the furface of the river, were, probably, at fome former period overfowed, as at the depth of eight or ten feet below the furface marine fhells have been found. - Dr. Martin concludes an account of the climate and difeafes of this town in the following words:
"Upon the whole, George-town and its vicinity may be confidered as a healthy part of America; and in any difputes about the pro-

## GENERAL DESCRIPTION

priety of the feat of the general government being fixed here, no objection can be urged againitit it on account of its difeafes."

## FREDERICK-TOWN.

Frederick-town is a fine flourifing inland town, of upwards of three hundred houfes, built principally of brick and flone, and moftly on one oroad ftreet: it is fituated in a fertile country, about four miles fouth of Catokton mountain, and is a place of confiderable trade: it haspur places for public worflip; one for Prefbyterians; two for Dutch Lutherans and Calvinitts, and one for Baptifts; befides a public gaol and a brick market-houfe.

## HAGARS-TOWN.

Hagars-town is but little inferior to Frederick-town; and is fituated in the beautiful and well-cultivated valley of Conegocheague, and carries on a confiderable trade with the weftern country.

## ELRTON.

Elkton is fituated near the head of Chefapeak bay, on a fmall river which bears the name of the town. It enjoys great advantage3 from the carrying-trade between Baltimore and Philadeiphia; and the tides ebb and flow up to the town. -

## POPULATION.

In 1782 the number of inhabitants in this State, including llaves, was two hundred and fifty-four thoufand and fifty. According to the cenfus of 1790 it was as follows:

MARYLAND

| $\begin{gathered} \text { COUNTIES } \\ \text { AND } \\ \text { TOWNS. } \end{gathered}$ |  |  |  |  |  | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Harford County, | 2872 | 2812 | 5100 | 775 | 3417 | 14976 |
| Baltimore do. | 5184 | 4668 | 9101 | 604 | 5877 | 25434 |
| Baltimore Town and Precincts | 3866 | 2556 | 5503 | 323 | 1255 | 13503 |
| Ann-Arundel County | 3142 | 2850 | 5672 | 804 | 10130 | 22598 |
| Frederick do. . . - | \%010 | 7016 | 1291 | 213 | 3641 | 30791 |
| Allegany do. - | 1068 | 1283 | 2188 | 12 | 258 | 4809. |
| Wanhington do. | 3738 | 3863 | 6871 | 64 | 1286 | 15822 |
| Montgomery do. - | 3284 | 2746 | 5649 | 294 | 6030 | 18003 |
| Prince George do. | 2653 | 2503 | 4848 | 164 | 11176 | 21344 |
| Calvert do. Charles do. | 1091 | 1109 | 2011 | 136 | 4305 | 8652 |
| St. Mary's do. | 2565 | 2399 | 5160 | 404 | 10085 | 20613 |
| Cecil do. . . |  | 1943 | 4173 | 343 | 6985 | 15544 |
| Kent do. | 18 | 12377 |  | 163 | 3407 | 13625 |
| Queen Ann's do. | 2158 | 1547 1974 | 3325 4039 | 655 618 | 5433 6674 | 12836 |
| Caroline do. | 1812 | 1727 | 3489 | 421 | 2057 | 15463 9506 |
| Talbot do. | 1938 | 1712 | 3581 | 1076 | 2077 4777 | 9506 13084 |
| Somerfet do. | 2185 | 1908 | 4179 | 268 | 7070 | 15610 |
| Dorchefter do. | 2541 | 2430 | 5039 | 528 | 5337 | 15875 |
| Worcefter do. | 1985 | 1916 | 372.5 | 178 | 3836 | 11640 |
|  | 9:5 | 1339 | 395 | 3043 | 23036 | 9728 |

By comparing thefe two accounts, the increafe appears to be fixty. five thoufand fix hundred and feventy-eight in eight years, or eight thoufand two hundred and fix per annum-reckoning, therefore, only on the fame proportion of increafe, the prefent number of inhabitants in this State cannot be lefs than three hundred and fifty thoufand.

## RELIGION AND CHARACTER.

The Roman Catholics, who were the firft fettlers in Maryland, are the moft numerous religious fect. Befides thefe, there are Proteftant Epifcopalians, Englifh, Scotch, and Itifh Prefbyterians, German Calvinifts, German Lutherans, Friends, Baptifts, Methodifts, Vol. III.

G
Menonifts

Menonifts and Nicolites, or new Quakers, who all enjoy liberty of confcience.

There are many very refpectable families in Baltimore who live genteelly, are hofpitable to ftrangers, and maintain a friendly and improving intercourfe with each other; but the bulk of the inhabitants, recently collected from almoft all quarters of the world, bent on the purfuit of wealth, varying in their habits, their manners, and their religions, have yet their general character to form.

The inhabitants, except in the populous towns, live on their plantations, often feveral miles diftant from each other. To an inhabitant of the middle, and efpecially of the eaftern States, which are thickly populated, they appear to live very retired unfocial lives. The effects of this comparative folitude and vifible in the countenances, as well as in the manners and drefs of many of the country people. You obferve comparatively little of that cheerful fprightlinefs of look and action, which is the invariable and genuine offspring of focial intercourfe; nor do you find that attention paid to drefs which is common, and which cuftom has rendered neceffary among people who are liable to receive company almoft every day: unaccuftomed, in a great meafure, to, frequent and friendly vifits, they often fuffer too much negligence in their drefs. As the negroes perform all their manual labour, their mafters are left to faunter away life in floth, and too often in ignorance. Thefe obfervations, however, muft, in juftice, be limited to the people in the country, and to thofe particularly whofe poverty or parfimony prevents their fpending a part of their time in populous towns, or otherwife mingling with the world; and with thefe limitations, they will equally apply te all the fouthern States. The inhabitants of the populous towns, and thofe from the country who have intercourfe with them, are, in their manners and cuftoms, genteel and agreeable.

That pride which grows on flavery, and is habitual to thofe who, from their infancy, are taught to believe and feel their fuperiority, is a vifible characteriftic of the inhabitants of Maryland; but with this characteriftic we mult not fail to connect that of hofpitality to ftrangers, which is equally univerfal and obvious. Many of the women poffefs all the amiable, and many of the elegant accomplifhments of their fex.

The inhabitants are made up of various nations of many different religious fentiments; few general obfervations, therefore, of a characteriftical, kind will aptely: it may be: faid, however, with great
sruth, that they are in general very federal, and friends to good government. They owe little money as a State, and are willing and able to difcharge their-debts: their credit is very good; and although they have fo great a proportion of flaves, yet a number of influential perfons evinced their humanity and their difpofition to abolifh fo curfed and difreputable a traffic, by forming themfelves into " a fociety for the abolition of negro flavery." What pleafure muft it afford thefe exaited characters, as well as every other friend of humanity, to reflect, that what they undertook as individuals, has been at length fully approved of, and completely accomplified by the federal government, who by an act that will reflect honour upon it to the latelt period of time, hase fet bounds to the infamous diftinction between men WHOSE ONIY REAL DIFFERENCE is COLOUR, and who have fecured, without injuftice or injury to any individual, at an early period, the entire abolition of flavery in name and practice. We join, the general wifh of thofe whofe object is the general happinefs of the human race-that the fpirit of philanthropic liberty in the brealt of every individual in the Union, may fecond and cherifh the efforts of the government in extending the knowledge and enjoyment of the rights of man to an hitherto enflaved world,

## TRADE AND MANUFACTURES,

Furnaces for running iron ore into pigs and hollow ware, and forges to refine pig iron into bars, are numerous, and worked to great extent and profit. This is the only manufacture of importance carried on in the State, except it be that of wheat into flour and euring tobacco.

The trade of Maryland is principally carried on from Baltimore, with the other States; with the Weft-Indies, and with fome parts of Europe. To thefe places they fend annually about thirty thouland hogheads of tobacco, befides large quantities of wheat, flour, pig iron, lumber, and corn; beans, pork, and flax feed in fmaller quantities; and receive in return, clothing for themfelves and negroes, and other dry goods, wines; fpirits, fugars, and other WeftIndia commodities. The balance is generally in their favour.

The total amount of exports from Baltimore 7 Dols. Cts.
from Oet. 1, 1789, to Sept. 30, 1790, was \} $2,027,777.64$
Value of imports for the fame time [ - $1,945,89955$
Exports from Oct. 1,1790 , to Sept. 30, 1791 3, 1312227.55
G 2
During

Diilng the laft mentioned period, the quantity of wheat exported was two hundred five thoufand five hundred and feventy-one bufhels; Indian corn, two hundred five thoufand fix hundred and forty-three ditto; buck wheat, four thoufand two hundred and eighty-fix ditto; peas, ten thoufand fix hundred and nineteen ditto; befides one hun= dred and fifty-one thoufand four hundred and forty-five barrels of wheat flour; four thoufand three hundred and twenty-five ditto ${ }_{2}$ Indian meal; fix thoufand feven bundred and fixty-one ditto, bread; and three thoufand one hundred and four kegs of crackers.

## SEMINARIES OF LEARNING, \&c.

Waihington acadensy, in Somerfet county, was inftituted by law in 1779: it was founded, and is fupported, by valuntarylfubicriptions and private donations, and is authorized to receive gifts and legacies ${ }_{2}$ and to hold two thoufand acres of land. A fupplement to the law, paffed in 1784 , increafed the number of truftees from eleven to fifteen.

In 1782, a college was inftituted at Charlefton, in Kent county ${ }_{2}$ and was honoured with the name of Washington College, after Prefident Wafhington. It is under the management of twenty-four vifitors or governors, with power to fupply vacancies and hold eftates, whofe yearly value fhall not exceed fix thoufand pounds current money. By a law enacted in 178\%, a permanent. fund was. granted to this inftitution of one thoufand two hundred and fifty pounds a year, currency, out of the monies arifing from marriage licenfes, fines, and forfeitures on the eaftern thore.

St. John's college was inftituted in 1785 , to have alfo twenty-four, truftees, with power to keep up the fucceifion by fupplying vacancies, and-to receive an annual income of nine thoufand pounds. A permanent fund is affigned this college, of one thoufand feven hundred and fifty pounds a year, out of the monies arifing from marriage licenfes, ordinary licenfes, fines and forfeitures, on the weftern fhore. This college is at Annapolis, where a building has been prepared for it. Very liberal fubfcriptions have been obtained towards founding and carrying on thefe feminaries. The two colleges conftitute one univerfity, by the name of 's the Univerfity of Maryland," whereof the governor of the State for the time being is chancellor, and the principal of one of them vice-chancellor, either by ieniority or by election, as may hereafter be provided for by rule or by law. The chancellor is empowered to call a meeting of the truftees ${ }_{2}$
not write their names. But the revolution, among other happy effeets, has roufed the fpirit of education, which is faft fpreading its falutary influences over this and the other fouthern States.

## CONSTITUTION.

## DECLARATION OF RIGHTS.

The Parliament of Great-Britain, by a declaratory act, having affumed a right to make laws to bind the Colonies in all cafes whatfoever, and in purfuance of fuch claim endeavoured by force of arms to fubjugate the United Colonies to an unconditional fubmifion to their will and power, and having at length conftrained them to dechare themfelves independent States, and to affume government under the authority of the people; therefore, we, the delegates of Maryland, in free and full Convention affembled, taking into our moft Erious confideration the beft means of eftablifiing a good conftitution in this State, for the fure foundation and more permanent fecurity thereof, declare,

1. That all government of right originates from the people, is founded in compact only, and inflituted folely for the good of the whole.
II. That the people of this State ought to have the fole and exclufive right of regulating the internal government and police theredf!
III. That the inhabitants of Maryland are entitled to the common law of England, and the trial by jury according to the courfe of that law, and to the benefit of fuch of the Englifh fatutes as exifted at the time of their firft emigration, and which by experience have been found applicable tọ their local and other circumftances, and of fuch ethers as have been fince made in England, or Great-Britain, and have becn introduced, ufed, and practifed by the courts of law or equity; and alfo to all acts of Affembly in force on the firf of June; feventeen hundred and feventy-four, except fuch as may have fince expired, or lrave been, or may be altered by acts of Convention, or this Declaration of Rights; fubject neverthelefs to the revifion of, and amendment or repeal by the legiflature of this State; and the inHabitants of Maryland are alfo entited to all property derived to them from or under the charter granted by his Majefly Charles I. to Cacilius Calvert, Baron of Baltimore.
IV. That all perfons invefted with the legillative or executive powers of government are the truftees of the püblic, and as fuch accountable for their conduct: wherefore, whenever the ends of government are perverted, and public liberty manifefly endangered, and all other means of redrefs are ineffectual, the people may, and of right ought to reform the old, or eftablifh a new government. The doctrine of non-refiftance againft arbitrary power and oppreffion is abfurd, flavih, and deftructive of the good and happinefs of mankind.
V. That the right in the people to participate in the legillature is the beft fecurity of liberty, and the foundation of all free government. For this purpofe, elections ought to be free and frequent, and every man having property in, a common intereft with, and attachment to the community, ought to have a right of fuffrage.
VI. That the legiflative, executive and judicial powers of government ought to be for ever feparate and diftinct from each other.
VII. That no power of fufpending laws, or the execution of laws, unlefs by, or derived from the legiflature, ought to be exercifed or allowed.
VIII. That freedom of fpeech and debates, or proceedings in the legiflature, ought not to be impeached in any other court of judicature.
IX. That a place for the meeting of the legillature ought to be fixed, the moft convenient to the members thereof, and to the depofitory of public records; and the legiflature ought not to be convened or held at any other place, but from evident neceffity.
X. That for redrefs of grievances, and for amending, ftrengthening and preferving the laws, the legillature ought to be frequently convened.
XI. That every man hath a right to petition the legillature for the redrefs of grievances, in a peaceable and orderly manner.
XII. That no aid, charge, tax, fee or fees, ought to be fet, rated, or levied, under any pretence, without confent of the legiflature.
XIII. That the levying taxes by the poll is grievous and oppreflive, and ought to be abolifhed ; that paupers ought not to be affeffed for the fupport of government; but every other perfon in the State ought to contribute his proporion of public taxes for the fupport of go-
vernment
ternment, according to his aatual worth in real or perfonal properity within the State; yet fines, duties, or taxes, may properly and juflly be impofed or laid with a political view for the good government and benefit of the community.
XIV. That fanguinary laws ought to be avoided, as far as is confiftent with the fafety of the State; and no law to inflict cruel and unufual pains and penalties ought to be made in any care, or at any time hereafter.
XV. That retrofpective laws, punifhing facts committed before the exifience of fuch laws, and by them only declared criminal, are oppreffive, unjuft, and incompatible with liberty, wherefore no $c x p o f t$ facto law ought to be made.
XVI. That no law to attaint particular perfons of treafon or felony ought to be made in any cafe, or at any time bereafter.
XVII. That every freeman, for any injury done him in his perfon or property, ought to have remedy by the courfe of the law of the land, and ought to have juftice and right, freely without fale, fully without any denial, and fpeedily without delay, according to the law of the land.
XVIIL. That the trial of facts where they arife, is one of the greateft fecurities of the lives, liberties, and eftates of the people.
XIX. That in all criminal profecutions, every man hath a right to be informed of the accufation againft him, to have a copy of the indietment or charge in due time, if required, to prepare for his defence, to be allowed council, to be confronted with the witneffes againft him, to have procefs for his witneffes, to examine the witneffes for and againft him on oath, and to a fpeedy trial by an impartial jury, without whofe unanimous confent he ought not to be found guilty.
XX. That no menan ought to be compelled to give evidence againft himfelf in a court of common law, or in any other court, but in fuch cafes as have been ufually practifed in this State, or may hereafter be directed by the legiflature.
XXI. That no freeman ought to be taken or imprifoned, or diffeifed of his freehold, liberties or privileges, or autlawed, or exiled, or in any manner deftroyed, or deprived of his life, liberty, or property, but by the judgment of his peers, or by the law of the tand.
XXII. That exceffive bail ought not to be required, nor exceffive hines impofed, nor cruel or unufual punifhments inflicted by the courts of law.
XXIII. That all warrants without oath or affirmation, to fearch fufpected places, or to feize any perfon or property, are grievous and oppreffive; and all general warrants to fearch fufpected places or to apprehend fufpected perfóns, without naming or defcyibing the place or the perfon in fpecial, are illegal; and ought not to be granted.
XXIV. That there ought to be no forfeiture of any part of the eftate of any perfon for any crime, except murder, or treafon againft the State, and then only on conviction and attainder.
XXV. That a well-regulated militia is the proper and natural defence of a free government:
XXVI. That fanding armies are dangerous to liberty; and ought not to be raifed or kept without confent of the legiflature.
XXVII. That in all cafes and at all times the military ought to be under ftrict fubordination to, and controul of the civil power.
XXVIII. That no foldier ought to be quartered in any houfe in time of peace, without the confent of the ourner; and in time of war, in fuch manner only as the legifature fiall direct.
XXIX. That no perfon, except regular foldiers, mariners, and marines in the fervice of this State; or militia, when in actual fervice, ought in any cafe to be fubject to, or punifliabie by martial law.
XXX. That the independency and uprightnefs of judges are effential to the impartial adminiftration of juftice, and a great fecurity to the rights and liberties of the people; wherefore the chancellor and judges ought to hold their commiffions during good behaviour; and the faid chancellor and judges fhall be removed for mifohaviour, on a conviction in a court of law, and may be removed by the governor, upon the addrefs of the General Affembly, provided that two-thirds of all the members of each Houfe concur in fuch addrefs. That falaries liberal, but not profufe, ought to be fecured to the chancellor and the judges during the continuance of their commiffions, in fuch manner and at fuch times as the legiflature fhall hereafter direct, upon confideration of the circumitances of this State: no chancellor or judge ought to hold any other ofice, civil or military, or receive fees or perquifites of any kind.
XXXI. That a long continuaṇce in the fuft executive departments of power or truft is dangerous to liberty; a rotation, thereVol. III. H fore,
fore, in thofe departments, is one of the beft fecurities of permanent freedom.
XXXII. That no perfor ought to hold at the fame time more than one ofice of profit nor ought any perfon in public truft to receive any prefetit from any foreign prince or ftate, or from the Unitedistates, or any of them, without the approbation of this State.

XXXXY). That as it is the duty of every man to wormip God in fuch manner as he thriks mott acceptable to him, all perfons profeffing the Chriftian religion are equally entitled to protection in their religious liberty; wherefose no perfon ought by any law to be molefted in his perfon or eftate, on account of his religious perfation or profeffion, or for his religious' practice, tunlefs' under colour of religion, any man fhall difturb the good order, peace, or fafety of the State, or Mall infringe the laws of morality, or injure others in their natural, civil, or religious rights; nor ought any perfon to be compelled to frequent, or maintain, or contribute, unlefs on contract, to maintain any particalar place of wormip, or any partieular miniftry = yet the legiflature may in their difcretion lay a general and equal tax for the fupport of the Chriftian religion; leaving to each individual the power of appointing the payment of the morey collected from him, to the fuppott of any particular place of wormip or miniter, or for the benefit of the poor of his own denomination, or the poor in general of any particular county; but the churches, chapels, glebes, and all the property now belonging to the Church of England, ought to remain to the Church of England for ever. And all acts of Affembly lately pafid for collecting monies for building or repairing particular churches or chapels of eafe, fall continue in force and be executed, unlefs the legiflature foll by act fuperfede or repeal the fame; but no county court fhall affefs any quantity of tobacco or fum of money hereafter, on the application of any veftry-mea, or church-wardens; and every incumbent of the Church of England who hath remained in-his parith, and performed his duty, nall be entitled to receive the provifion and fupport eftabKined by the act, entitled, "An act for the fupport of the clergy of the Church of England in this province, ${ }^{n}$ till the November court of this prefent year, to be held for the county in which his parifh frall lie, or partly lie, for fuch time as he hath remained in his parifh, and pertormed his daty.
XXXIV. That every gift, fale or devife of lands to any minifter, public teacher, or preacher of the gofpel, as fuch, or to any religious
feat, order, or denomination, or to, or for the fupport, ufe, or benefit of, or in truft for any minifter, public teacher, or preacher of the gofpel, as fuch, or any religious fet, order, or denomination; and every gift or fale of goods or chattels to go in fucceffion, or to take place after the death of the feller or donor, or to or for fuch fupport, ufe or benefir ; and alfo every devife of goods or chattels to, or for the fupport, ufe or benefit of any minifter, public teacher, or preacher of the gofpel, as fuch, or any religious fect, order or denomination, without the leave of the legiflature, fiall be void; except always any fale, giff, leafe or devife of any quantity of land not exceeding two acres, for a chuirch, meeting, or other houfe of wormip, and for a burging ground, which thall be improved, enjoyed, or ufed only for fuch purpofe, or fuck fale, gift, leafe, or derife, flall be void.
XXXV. That no other teft or qualification ought to be required on admiffion to any office of truft or profit, than fuch oath of fupport and fidelity to this State, and fuch nath of office as fhall be directed by this Convention, or the legillature of this State, and a declaration of a belief in the Chriftian religion.
XXXVI. That the manner of adminiftering an oath to any perfon, ought to be fuch as thofe of the religious perliaifion, profeffion, or denomination, of which fuch perfon is one, generally efteem the moft effectual confirmation by the atteftation of the Divine Being, And that the people called Quakers, thofe called Dunkers, and thofe called Menonifts, holding it unlawful to take an oath on any occafion, ought to be allowed to make their folemn affirmation in the manner that Quakers have been heretofore allowed to affirm, and to be of the same avail as an oath in all fuch cafes as the affirmation of Quakers hath been allowed and accepted within this State; inftead of an oath, And farther, on fuch affirmation, warrants to fearch for ftolen goods, or for the apprebenfion or commitment of offenders, ought tobe granten, or fecurity for the peace awarded; and Quakers, Dunkers, or Menonifts, ought affo, on their folemn affirmation as aforefaid, to be ad-. mitted as witneffes in all criminal cafes not capital,
XXXVII. That the city of Annapolis ought to have all its rights, privileges, and benefits, agreeable to its charter, and the acts of Affembly confirming and regulating the fame; fubject neverthelefs to fuch alterations as may be made by this Convention, or any future legiflatare.
XXXVIII. That the liberty of the prefs ought to be inviolably preferved.

Hz XXXIX, That

XXXIX: That monopolies are odious, contrary to the fpirit of a free government and the principles of commerce, and ought not to be fuffered.
XL. That no title of pobility or hereditary honaurs ought to be granted in this State.
XLI. That the fubfirting refolves of this and the feveral Conventions held for this colony, qught to be in force as laws, unlefs at tered by this Convention, or the legillature of this State.
XLII. That this declaration of rights, or the form of government to be eftablifhed by this Convention, or any part of either of them, ought not to be altered, changed or abolifhed by the legilature of this State, but in fuch manner as this Convention Chall prefcribe and difect.

## FRAME OF GOVERNMENT.

I. That the legiflature confift of two diftinct branches, a Senate and a Houfe of Delegates, which fhall be fitled The General Assembly of Maryiland.
II. That the Houfe of Delegates flatl be chofen in the following manner : ail freemen above twenty-one years of age, having a freehold of fifty acres of land in the county in which they offer to vote, and refiding thercin; and all freemen having property in this State above the value of thirty pounds current money, and having refided in the county in which they offer to vote, one whole year next preceding the election, flhall have a jight of fuffrage in the eledion of delegates for fuch country, all freemen fo qualified flall, on the firt Monday of Octobet, feventeen hundred and feventy-feven, and on the fame day in every year thereafter, affemble in the counties in which they are refpectively qualified to vote, at the court-houfe in the faid counties, or at fuch other place as the legiflature fhall direet, and when affembled, they hall proceed to elect, viva voce, four delegates for their refpective courties, of the moft wife, fenfible, and difcreet of the people, refidents in the county where they are to be chofen one whole year next preceding the election, above twenty-one years of age, and having in the State real or perfonal property above the value of five hundred pounds current money; and upon the final cafting of the polls, the four perfons who fhall appear to have the greatef number of legal yotes, fhall be declared and returned duly elected for their refpective counties.
III. That the fheriff of each county, or, in cafe of ficknefs, his de. pputy, fummoning two juftices of the county, who are required to at-
tend for the prefervation of the peace, fhall be the judge of the election, and may adjourn from day to day, if neceffary, till the fame be finifhed, fo that the whole election fhall be concluded in four days, and fhail make his return thereof, under his hand, to the chancellor of this State for the time being.
IV. That all perfons qualified by the charter of the city of Annapolis to vote for burgeffes, fhall on the fame firft Monday of October, feventeen hundred and feventy-feven, and on the fame day in every year for ever thereafter, elect ziroá voce, by a majority of votes, two delegates, qualified agreeable to the faid charter; that the mayor, recorder, and aldermen of the faid city, or any three of them, he judges of the election, appoint the place in the faid city for holding the fame, and may adjourn from day to day as aforefaid, and thall make return thereof as aforefaid; but the inhabitants of the faid city flaty not be entitled to vote for delegates for Ann-Arundel connty, unlefs they have a freehold of fifty acres of land in the county, diftingt from the city.
V. That all perfons, inhabitants of Baltimore town, and having the fame qualifications as electors in the county $y_{3}$ fhall on the fame firft Monday in OChober, feventeen hundred and feventy-feven, and the fame day in every year forever thereafter, at fuch place in the faid town as the judges flall appoint, elect rivai voce, by a majority of votes, two delegaies, qualified as aforefaid; but if the faid inhabitants of the town fhall fo decreafe, as that the number of perfons having a right of fuffrage therein, fhall have been for the face of feven years fucceffively, lefs than one half the number of voters in fome one county in this State, fuch town thenceforward fhall ceafe to fend two delegates or reprefentatives to the Houfe of Delegates, until the faid comn fhall have one half of the number of voters in fome one county in this State.
VI. That the commifioners of the faid town, or any three or more of them, for the time being, fhall be judges of the faid election, and may adjourn as aforefaid, and thall make return thereof as aforefaid; but the inhabitants of the faid town fhall nor be entitled to vote for, or be elected delegates for Baltimore county; neither fhall the inhabitants of Baltimore county, out of the limits of Baltimore town, be entitled to vote for ${ }_{3}$ or be elected delegaies for the faid sown.
VII. That on refufal, death, difqualificatios, relignation or removal out of this State, of any delegate, or on his becoming governor or member of the council, a warrant of election fhall iffue by the fpeaker, for the election of another in his 'place, of which ten days notice at leaft, excluding the day of notice and day of election, fhall be given.
VIII. That not lefs than a majority of delegates, with their speaker, to be chofen by them by ballot, conftitute an Houfe for the tranfaction of any bufinefs, other than that of adjourning.
IX. That the Houfe of Delegates faall judge of the elections and qualifications of delegates.
X. That the Houfe of Delegates may originate all money bills, propofe bills to the Senate, or receive thofe offered by that body, and affent, diffent, or propofe amendments; that they may inquire, on the oath of witneffes, into all complaints, grievances, and offences, as the grand inqueft of this State, and may commit any perfon for any crime to the public gaol, there to remain till hebe difcharged by due courfe of law. They may expel any member for a great mifdemeanor, but not a fecond time for the fame câufe. They may examine and pafs all accounts of the State, relating either to the collection or expenditure of the revenue, or appoint/auditors to ftate or adjuft the fame. They may call for all public or official papers and records, and fend for perfons whom they may judge peceffary, in the courfe of their inquiries, concerning affairs relating to the public intereft; and may direct all office bonds, which fhall be made payable to the State, to be fued for on any treach of duty.
XI. That the Senate may be at full and perfect liberty to exercife their judgment in paffing laws, and that they may not be compelled by the Houre of Delegates either to reject a money bill which the emergency of affairs may require, or to affent to fome other act of legiflation, in their confcience and judgment injurious to the public welfare, the Houfe of Delegates fhall not, on any occafion, or under any pretence annex to, or blend with a money bill, anyzmatter, claufe, or thing, not immediately relating to, and neceflary for the impofing, affeffing, levying, or applying the taxes or fupplies to be raifed for the fupport of government, or the current expenfes of the State: and to prevent altercation about fuch bills, it is declared, that no bilt impofing duties or cuftoms for the mere regula: tion of commerce, or inflicting fines for the reformation of morals, of
to enforce the execution of the laws，by which an incidental revenue may arife，fhall be accounted a money bill；but every bill affeffing， levying or applying taxes or fupplies for the fupport of government， or the current expenfes of the State，or appropriating money in the treafury，fhall be deemed a money bill．

XII．That the Houfe of Delegates may punifh，by imprifonment， any perfon who fhall be guilty of a contempt in their view，by any diforderly or riotous behaviour，or by threats to，or abufe of their nembers，or by any obftruction to their proceedings．They may alfo punifh，by imprifonment，any perfon who thall be guilty of a breach of privilege，by arrefting on civil procefs，or by affaulting any of their members during their fitting，or on their way to，or re－ turn from the Houfe of Delegates；or by any affault of，or obftruc－ tion to their officers，in the execution of any order or procefs；or by affaulting or obftructing any witnefs，or any other perfon，attend． ing on，or on their way to，or from the Houfe；or by refcuing any perfon committed by the Houre；and the fenate may exercife the fame power in fimilar cafes．

XIII．That the treafurers（one for the weftern and another for the eaftern floore）and the commiffioners of the Loan Office，may be appointed by the Houfe of Delegates during their pleafure；and in cafe of refufal，death，refignation，difqualification，or removal out of the State，of any of the faid commiffioners or treafurers， in the recefs of the General Affembly，the governor，with the adrice of the council，may appoint and commiffion a fit and proper perfor to fuch vacant office，and to hold the fame until the meeting of the next General Affembly．

XIV．That the fenate be chofen in the following manner ：－All perfons，qualified as aforefaid to vote for county delegates，fuall，on the firft day of September， 178 r ，and on the fame day in every fifth year for ever thereafter，elect vivá voce，by a majority of votes， two perfons for their refpective counties，qualified as aforefaid to be elected county delegates，to be electors of the fenate；and the fheriff of each county，or，in cafe of ficknefs，his deputy，（fum－ moning two jultices of the county，who are required to attend for the prefervation of the peace）thall hold and be judge of the faid election，and make return thereof as aforefaid．And all perfons． qualified as aforefaid to vote for delegates for the city of Annapolis and Baltimore town，fhall，on the fame firt Monday of September， 1785，and on the fame day in every fifth year for ever thereafter，elect，
rusiza voce, by a majority of votes, one perfon for the faid city and. town refpectively, qualified as aforefaid, to be elected a delegate forthe faid city and town refpectively; the faid election to be held in the fame manner as the election of delegate for the faid city and town; the right to elect the faid elector with refpect to Baltimpre town to continue as long as the right to elect delegates for the faid sown.
XV. That the faid electors of the fenate nteet at the city of Annapolis, or fuch other place as fhall be appointed for convening the legiflature, on the third Monday in September, 1781 , and on' the fame day in every fifth year for ever thereafter, and they; or any twentyfour of them fo met, fiall proceed to eled; by ballot; either out of their own body, or the people at large, fifteen fenators; (nine of whom to be refidents on the weftern, and fix to be refidents on the eaftern flore) men of the moft wifdom, experience and virtue; above twenty-five years of age, refidents of the State above three whole years next preceding the election, and having real and perfonal property above the value of one thoufand pounds current money:

XVI: That the fenators fhall be balloted for at one and the fame time; and out of the gentlemen refidents of the weftern flore who fhall be propofed as fenators, the nine who fhall, on friking the ballots; appear to have the greateft number in their favour, fhall be accordingly declared and returned duly elected; and out of the gentlemen refidents of the eaftern fhore who fhal be propofed as fenators, the fix who fhall, on friking the ballots, appear to have the greateft number in their favour, fhall be accordingly declared and returned duly elected : and if two or more, on the fame fhore, fhall have an equal number of ballots in their favour, by which the choice fhall not be determined on the firft ballot, then the electors thall again ballot before they feparate, in which they fhall be confined to the perfons who, on the firf ballot, fhall have had an equal number; and they who fhall have the greateft number in their favour on the fecond ballot, fhall be accordingly declared and returned duly elected; and if the whole number flould not this be made up, becaufe of an equal number on the fecond ballot till being in favour of two or more perfons, then the election fhali be determined by lot between thofe who have equal numbers; which proceedings of the clectors fhall be certified under their hands, and returned to the chancellor for the time being.
XVII. That the electors of fenators fhall judge of the qualifications and elections of members of their body, and on a conteited election fhall admit to a feat, as an elector, fuch qualified perion as Itall appear to them to have the greateft number of legal votes in his favour.
XVIII. That the electors immediately on their meeting, and before they proceed to the election of fenators, take fuch oath of fupport and fidelity to this State, as this Convention or the leginiture thall direct; and alfo an cath, " to elect, without favour; affection, partiality or prejudice, fuch perfons for fenators as they, in their judgment and confcience, believe beft qualified for the office."
XIX. That in cafe of refufal, death, refignation, d:iqualification, or removal out of this State, of any fenator, or on his becoming governor, or a member of the council, the fenate fhall immediately thereupon, or at their next meeting thereafter, elect by ballot, in the fame manner as the electors are above directed to chufe fenators, another perfon in his place for the refidue of the faid term of five years.
XX. That not lefs than a majority of the fenate, with their prefident (to be chofen by them by ballot) fhall conftitute an Houfe for the tranfacting any buffaefs, other than that of adjourning.
XXI. That the fenate thall judge of the elections and qualifications of fenators.
XXII. That the fenate may originate any other except money bills, to which their affent or diffent only fhall be given; and may. receive a:y other bills from the Houfe of Delegates, and affent, diffent or propofe amendments.
XXIII. That the General Affembly meet annually, on the firft Monday of ivovember, and if neceffary oftener.
XXIV. That each Houfe fhall appoint its own officers, and.fettle its own rules of proceeding.
XXV. That a perfon of wifdom, experience and virtue, thall be chofen governor, on the fecond Monday of November, feventeen hundred änd feventy-feven, and on the fecond Monday in every year for ever thereafter, by the joint ballot of both Houfes, to be taken in each Houfe refpectively, depofited in a conference room; the boxes to be examined by a joint committee of both Houfes, and the numbers feverally reported, that the appointment may be entered; which mode of taking the joint ballot of both Houfes thall he adopted in all cafes. But if tiro or more flall have an equal
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number of ballots in their favour, by which the choice flall not be determined on the firft ballot, then a fecond ballot fhall be taken, which fhall be confined to the perfons who on the firft ballot flall have had an equal number; and if the ballots fhould again be equal between two or more perfons, then the election of the governor fhall be determined by lot, between thofe who have equal num. bers; and if the perfon chofen governor thall die, refign, remove out of the State, or refufe to act (fitting the General Affembly) the Senate and Houfe of Delegates fhall immediately thereupon proceed to a new choice in manner aforefaid.
XXVI. That the fenators and delegates, on the fecond Tueflay of November, one thoufand feven hundred and feventy-feven, and annually on the fecond Tuefday of November for ever thereafter, elect by joint ballot, in the fame manner as fenators are directed to be chofen, five of the moft fenfible, difcreet and experienced men, atove twenty-five years of age, refidents in the State above three years next preceding the election, and having therein a freehold of lands and tenements above the value of one thoufand pounds current money, to be the councii to the governor; 第hofe proceedings fhall be always entered co record, to any part whereof any member may enter his diffent; and their advice, if fo required by the governor or any member of the council, fhall be given in writing, and figned by the members giving the fame refpectively; which proceedings of the council thall be laid before the Senate or Houfe of Delegates, when called for by them, or either of them. The council may ap. point their own clerk, who fhall take fuch oath of fupport and fidelity to this State as this Convention or the legillature fhall direct, and of fecrec;; in fuch matters as he fhall be directed by the Board to keep fccre:.
XXVII. That the delegates to Congrefs from this State flall be chofen annually, or fuperfeded in the mean time by the joint ballo: of both Houfes of Affembly, and that there be a rotation in fuch; manner that at leait two of the number be annually changed; and no perfon fhall be capable of being a delegate to Congrefs for more than three in any term of fix years; and no perfon who holds any office ofe profit in the gift of Congrefs fhall be eligible to fit in Congreis, but if appointed to any fuch office his feat fhall be therebj racated. That no perfon, unlefs above twenty-one years of age, and a refident in the State more than five years next preceding the election, and having real and perfonal eftate in this State above the
value of one thoufand pounds current money, fhall be eligible to fit in Congrefs.
XXVI. That the fenators and delegates, immediate!y on their annsal mesting, and before they proceed to any bufineis, and every perfon hertafier elected a fenator or delegate, before he acts as fuch, fhall take an oath of fupport and fidelity to this rate as aiorefaid; and before the eiection of a governor, or member of the cunaicil, Thall take an oath, " to elect without favour, affection, partiality or prejudice, fuch perfon as governur, or memb:r of the council, as they in their judgment and confcience believe beft qualified for the ofice."
XXIX. That the fenate and delegates may adjourn themfelves. reffectively : but if the two Houfes hould not ayrec on the fame time, but adjourn to differeny days, then thall the governor appoint and notify one of thoie days, or tone day between, and the Aliembly fhall then meet and be held accordingly; and be fhail, if neceffary, by advice of the council, call them befire the time to which they fhall in any manner be adjourned, on giving not lefs than ten days motice thereof; but the governor thall not adjourn the Affembly ctherwife than as aforetaid, nor prorogue or diflolve it ar any time.
XXX. That no perion, unlefs above fwenty-five ye rs of age, a refident in this State above five years next preceding the election, and having in the State real and perfonal property above the value of five thoufand pounds current money, one thoufand pounds whereof at leaft to be freehold eftate, fhall be eligible as governor.
XXXI. That the govercor fhall not continue in that office longer than three years fucceffively, nor be eligible as governor until the expiration of four years after he fhall have been out of that office.
XXXII. That upon the death, refignation, or removal out of this State, of the governor, the firft named of the council, for the time being, thall act as governor, and qualify in the fame manner; and fhall immediately call a meeting of the General Affembly, giving not lefs than fourteen days notice of the meeting, at which meeting a governor fhall be appointed, in manner aforefaid, for the refidue of the year.
XXXIII. That the governor, by and with the advice and confent of the council, may embody the militia, and when embodied fhal alone have the direction thereof, and fhall alfo have the direction of all the regular land and fea forces under the laws of this State; but he fhall not command in perfon, unlefs advifed thereto by the
council; and then only fo long as they thall approve thereof; and may alone exercife all other the executive powers of government, where the concurrence of the council is not required, according to the laws of this State; and grant reprieves or pardons for any crime, except in fuch cafes where the law fhall otherwife direct; and may, during the recefs of the General Affembly, lay embargoes. to prevent the departure of any fhipring, or the exportation of any commodities, for any time not exceeding thirty days in any one year, fummoning the General Affembly to meet within the time of the continuance of fuch embargo; and may alfo order and compel any veffel to ride quarantine, if fuch veffel, or the pert from which fhe may have come, flall, on ftrong grounds, be fufpected to be infected with the plague; but the governor fhall not, on any pretence, exerciie any power or prerngative by virtue of any law, ftazute or cuf: $m$, of England or Great-Britain.
XXXIV. That the members of the council, or any three or more of them, when convened, thall conititute a Board for the tranfacting of bufinefs. That the governor for the time being flall prefide in the council, and be entitled to a vote on all queftions in which the council hall be divided in opinion; and in the abfence of the governor, the firft named of the council fiall prefide, and as fuch fiall alfo voie in all cafes where the other members difagree in their opinion.
XXXV. That in cafe of refufal, death, refignation, difqualification, or removal out of the State, of any perfon chofen a member of the coincil, the members thereof, immediately thereupon, or at their next meeting thereafter, fhall elect, by ballot, another perfon qualified as aforefaid, in his place, for the refidue of the year.
XXXVI. That the council fhall have power to make the great feal of this State, which thall be kept by the chancellor for the time being, and affixed to all laws, commuffions, grants and other public teftimonials, as has been heretofore practifed in this State.
XXXVII. That no fenator, delegate of Affembly, or member of the counci, if he fhall qualify as fuch, fhall hold or execute any office of profit, or receive the profits of any office exercifed by any other perfon, during the time for which he fhall be elected; nor fhail ary governor be capable of holding any other office of profit in this Siate, while he acts as fuch; and no perfon holding a place of profit, or receiving any part of the profits thereof, or receiving the profits, or any part of the profits, arifing on any agency for the fup-
ply of cloathing or provifions for the army or navy, or holding any office under the United States, or any of them, or a minifter or preacher of the goffel of any denomination, or any parion employed in the regular land fervice, or marine, of this or the United States, fhall have a feat in the General Affembly, or the council of this state.
XXXVIII. That every governor, fenator, delegate to Congrefs or Affembiy, and member of the council, before he acts as fuch, fhall take an oath, "That he will not receive, directly or indirectly, at any time, any part of the profits of any office held by any other perfon during his acting in his office of governor, fenator, delegate to Congrefs or Affembly, or member of the council, or the profits, or any part of the profis, arifing on any agency for the fupply of cloathing or provilions ior the army or navy."
XXXIX. That if any fenator, delegate to Congrefs or Affernbly, or menber of the council, flall hold or exe ure any office of proit, or receive, directly or indirectiy, at any time, the profits, or any part oi the profis, of any office exercifed by any other perfon, during his acting as fenator, delegate to Congrefs or Affembly, or member of the council, his feat, on conviction in a court of law, by the oath of two credible witneffes, fhall be void, and he fhall fuffer the punillument for wiliul and corrupt perjury, or be banifhed this State for ever, or difqualified for ever from holding any office or place of truft or profic, as the court may juige.
XL. That the chansellor, all judges, the attorney-general, clerks of the General Court, the clerks of the county courts, the regifters of the land office, and regifters of wills, fhaill hold their commiffions during good behaviour, removeable only for milbehaviour, on conviction in a court of law.
XLI. That there be a regifter of wills appointed for each county, who flall be commiffioned by the governor, on the joint recommendation of the Senate and Houre of Delegates; and tiat upon the death, refignation, diqualification, or removal out of the county, by any regiffer of wills, in the recefs of the General Affembly; the governor, with the advice of the council, may appount and conmiffion a fit and proper perfon to fuch vacant office, to hold the fame until the meeting of the General Affembly.
XLII. That fheriffs fhall be clected in each county, by balct, every third year, that is to fay, two perfons for the office of fheriff for each county, the one of whom having the majority of votes; or
if both have an equal numier, either of them, at the diferetion of the governor, to be commifioned by the governor for the faid office, and having ferved for three years, fuch perion fhall be ineligible for the four years next fucceeding, in ad with fecurity to be taken every ycar às ufuai, and no fheriff thall be qualified to àt before the fameis given. In cafe of death, refufal, refignation, difqualinic:ion, or removal out of the county, before the expiration of the three years, the other perfor, chofen as aforefa:i, fhall be commitioned by the governor to execute the faid office for the refidize of the faid three years, the faid perfon giving boad with fecurity as aforefaid; and in caie of his ceath, refural, refignation, diffualification, or removal out of the con:ty, before the expiration of the faid three years, the governor, with the advice of the cauncil, may mominate and commiftion a fit and proper perfon to execute the faid office for the refidte of the fiid three yea:s, the faid perfon giving bond and fecurity as afoeefaid. The election frall be held at the fame time and place appointed for the election of delegates; and the juffices there fummoned to attind for the prefervation of the peace, fhall be judges thereof, and of the qualifeation of candidates, who fhall appoint a clerk to take the ba'lots. All freemen above the age of twenty-one years, having a freehold of fifty acres of land in the couity in which they offer to b.llot, and refiding therein; and all freemen above the age of twenty-one years, and having property in the State above the value of thirty pounds current money, and having refided in the county in which they offer to ballot, one whole year next preceding the election, fhall have a right of fuffrage; no perfon to be eiigible to tiee office of theriff for a county, but an inhabitant of the faid county above the age of treenty-one years, and baving real and perfonal property in the State above the value of one thoufand pounds current money. The juftices aforefaid fhall examine the ballots, and the trwo candidates properly qualified, having in each county the majority of legal baliots, thall be declared duly elected for the office oit theriff for fu-h county, and returned to the governor and council, with a certificate of the number of ballors for each of them.
XLIII. That every perfon who fhall offer to vote for delegates, or for the election of the fenate, or for the fheriff, fhall (if required by any three perfons qualified to vote) before he be admitted to poll, take fuch oath or affirmation of fupport and fidelity to this State, as this Convention or the legiflature fiall direct.

XIIV. That a juftice of the peace may be eligible as a fenator, delegate, or member of the council, and may continue to act as a juftice of the peaces.
XLV. That no field officer of the militia be eligible as a fenator, delegate, or member of the council.
XLVI. That all civil officers hereafter to be appointed for the feveral counties of this State, finall have been refidents of the county refpectively, for which they thall be appointed, fix months next before their appointment, and fhall continue refidents of their county refpectively; during their continuance in office.
XLVII. That the judges of the General Court, and juftices of the county courts, may appoint the clerks of their reipective courts, and in cafe of refufal, death, refignation, difqualification, or removal out of the county, of any of the faid county clerks, in the vacation of the county court of which he is clerk, the governor, with the advice of the council, may appoint and commifion a fit and proper perfon to fuck vacant office refpectively, to hold the fame until the meeting of the next General Court, or county court, as the cafe may be.
XLVIII. That the governor for the time being, with the advice and confent of the council, may appoint the chancellor, and all judges and juftices, the attorney-general, naval officers; officers in the regular land and fea fervice, officers of the militia, regiters of the land office, furveyors, and all other civil officers of government, (affefors, conitables and overfeers of the roads only excepted) and may alfo fufpend or remove any civil officer who has not a commifion during good behaviour; and may fufpend any militia officer for one month; and may alfo fuppend or remove any regular officer in the land or fea fervice; and the governor may remove or fufpend any militia nffice: in puriuance of the judgment of a court martial.
XLIX. That all civil officers of the appointment of the governor and council, who do not hold commiffions during good behaviour, fhal be appointed annually in the third week of November; but if any of them thal! be re-appointed, they may continue to act without any new commiffion or qualification; and every officer, though not re-appointed, fhall continue to aft until the perfon who thall be appointed and commifioned in his fead flall be qualified.
L. That the governor, every member of the council, and every judge and juitice, before they act as fuch, hall refpectively take an oath, "That he will not, through favour, affection or partiality,
vote for any perfon to office, and that he will vote for fuch perfor as in his judgmerit and confcience he believes moft fit and beft qualified for the office; and that he has not made, nor will make any promife or engagement to give his vote or intereft in favour of any perfon."
LI. That there be two regiters of the land office, one upon the weftern and one upon the eaftern fhore; that fhort extracts of the grant, and certificates of the land on the weftern and eaftern fhores refpectively be made in feparate books, at the public expenfe, and depofited in the offices of the faid regifters in fuch manner as thall hereafter be provided by the General Affembly.
LII. That every chancellor, judge, regifter of wills, commiffioner of the loan office, attorney-general, heriff, treafurer, naval officer, regifter of the land office, regifter of the chancery court, and every clerk of the common law courts, furveyor, and auditor of the public accounts, before he acts as fuch, fhall take an oath, "that he will not, directly or indirectly, receive any fee or reward for doing his office of but what is or flall be allowed by law ; nor will directly or indirectly receive the profits, or any part of the profits of any office held by any other perfon; and that he does not hold the fame office in truft, or for the benefit of any other perfon."
LIII. That if any governor, chancellior, judge, regifter of wills, attorney-general, regifter of the land office, regifter of the chancery court, or any clerk of the common law courts, treafurer, naval officer, fheriff, furveyor or auditor of public.accounts, fhall receive, directly or indirectly, at any time, the profits, or any part of the profits, of any office held by any other perfon, during his acting in the office to which he is appointed, his election, appointment and commiffion, on convition in a court of law, by oath of two credible witneffes, 葹all be void, and he fhall fuffer the punifhment for wilful and corrupt perjury, or be banifhed this State for ever, or difqualified for ever from holding any office or place of truft or profit, as the court may adjudge.
LIV. That if any perfon fhell give any bribe, prefent or reward, or any promife, or any fecurity for the payment or delivery of any: money, or any other thing, to obtain or procure a vote to be goa vernor, fenator, delegate to Congrefs or Affembly, member of the council, or judge, or to be appointed to any of the faid offices, or to any office of profit or truff, now created or hereafer to be created in this State; the perfon giving, and the perfon receiving the fame,
on conviction in a court of law, fhall be for ever difqualified to hold any office of truft or profit in this State:
LV. That every perfon appointed to any office of profit or truft fhall, before he enters on the execution thereof, take the following oath, to wit, ": I A.B. do fwear, That I do not hold myfelf bound in allegiance to the King of Great-Britain, and that $I$ will be faithful, and bear true allegiance to the State of Maryland," and Mall alfo fubfcribe a declaration of his belief in the Chriftian religion.
LVI. That there be a court of appeals, compofed of perfons of integrity and found judgment in the law, whofe judgment flall be final and conclufive in all cafes of appeal from the General Court, Court of Chancery, and Court of Admiralty: that one perfon of integrity and found judgment in the law be appointed chancellor: that three perfors of integrity and found judgment in the laiv be appointed judges of the court now called the Provincial Court ; and that the fame court be hereafter called and known by the name of The General Court; which court thall fit on the weftern and eaftern thores for tranfacting and determining the bufinefs of the reipective flores, at fuch times and places as the future legiflature of this State fiall direct and appoint.
LVII. That the ftile of all laws runs thus, Be it enaEZed, by the General Afembly of Maryland: that all public commiffions and grants run thus, The Siate of Nairyland, \&c. and fhall be figned by the governor, and attefted by the chancellor, with the feal of the State annexed, except military commifions, which fliall not be attefted by the chancellor, or have the feal of the State annexed: that all writs thatl run in the fame ftile, and be tefted, fealed and figned as ufual : that all indictments fhall conclude, Againft the Peace, Government, and Dignity of the Statc.
LVIII. That all penalties and forfeitures, heretofore going to the King or proprietary, fhall go to the State, fave only fuch as the General Affembly may abolifh or otherwife provide for.
LIX. That this Form of Government, and the Declaration of Rights, and no part thereof, fhall be altered, changed or abolifhed, unlefs a bill fo to alter, change or abolinh the fame, fhall pals the General Affembly, and be publifhed at leaft three months before a new election, and thall be confirmed by the General Affembly after a new election of delegates, in the firt feffion after fuch new election : provided, that nothing in this Form of Government which relates to the eattern hore particularly, fhall at any time hereafter be

Vol. III. $\quad \mathrm{K}$ aliered,
altered, unlefs for the alteration and confirmation thereof at leaft two thirds of all the members of each branch of the General Affembly fhall concur.
LX. That every bill paffed by the General Affembly, when engroffed, fhall be prefented by the fpeaker of the Houre of Delegates, in the fenate, to the governor for the time being, who fhall fign the fame, and thereto affix the great feal, in the prefence of the members of both Houfes. Every law fhall be recorded in the General CourtOffice of the weftern thore, and in due time printed, publifhed, and certified under the great feal, to the feveral county courts, in the fame manner as hath been heretofore ufed in this State.

This Declaration of Rights and Frame of Government was affented to, and paffed in Convention of the Delegates of the freemen of Maryland, begun and held at the city of Annapolis, the 14th of Atguff, A.D. 1776.

## EXPENSES OF GOVERNMENT AND TAXES.

The annual expenfes of government are eftimated at about twenty thouland pounds currency. The revenue arifes chiefly from taxes on real and perfonal property.

## CITYOF

## W ASHINGTON,

IN THE TERRITORY OF COLUMBIA.

THE territory of Columbia was ceded to the United States by the States of Marylaid and Virginia, for the purpofe of eftablifhing a federal city, that might become the permanent feat of the Federal Government. This city, now building, is called after the name of that brave defender of American liberty and fupporter of the rights of mankind, GEORGE WASHINGTON, who having vindicated the rights of his countrymen, and contributed to the eftablifhment of his country's independence, has been called by the voice of gratitude and affection to fill the higheft office a generous and brave people had to be-frow-this city will therefore ftand as the moft honourable monument of his worth and the people's gratitude that could poffibly be erected; and we truft that when it becomes the feat of government, which it is to be after 1800 , that it will recall to the minds of future legiflators his zirtues, and the principles on which American liberty is founded, and its government eftablifhed. This city ftands at the junction of the rivers Potomack and the Eaftern Branch, in latitude $3^{8 \circ}$ $53^{\prime}$ north, extending about four miles up cach, including a tract of territory, exceeded in point of convenience, falubrity, and beauty, by none in America, if any in the world : for although the land is apparently level, yet by gentle and gradual fwellings, a variety of elegant profpects are produced, while there is a fufficient defcent to convey off the water occafioned by rain.

Within the limits of the city are twenty-five fprings of excellent water ; and by digging wells, water of the beft quality is readily had; befides thefe, the ftreams that now run through that territory, are alfo to be collected for the ufe of the city.
The waters of Reeds branch and of Tiber creek may alfo be conveyed $\mathrm{K}_{2}$
to the Prefident's houfe; for the fource of Tiber creek is elevated about two hundred and thirty-fix feet above the level of the tide in the faid creek, and the perpendicular height of the ground on which the capital is to ftand, is feventy-eight feet above the level of the tide in the fame : the water of Tiber creek may, therefore, be conveyed to the capital, and after watering that part of the city, may be deftined to other ufeful purpofes.

The Eaftern Branch is one of the fafeft and moft commodious harbours in America, being fufficiently deep for the largeft fhips for about four miles above its mouth ; while the channel lies clofe along the edge of the city, and affords a large and capacious harbour.

The Potomack, although only navigable for fmall craft, for a confiderable diftance from its banks next to the city, excepting about half a mile above the junction of the rivers, will neverthelefs afford a capacious fummer harbour; as an immenfe number of fhips may ride in the great channel, oppofite to and below the city.

The city, being fituated upon the great poft road, exactly equidiftant from the northern and fouthorn extremities of the Union, and nearly fo from the Atlantic ocean to the Ohio river, upon the beft navigation, in the midit of the richeft commercial territory in America, and commanding the moft extenfive internal refources, is by far the moft eligible fituation for the refidence of Congrefs; and as it is now preffing forward, by the public fpirited entererprife of the people of the United States, and by foreigners, it will grow up with a degree of rapidity, hitherto unparalleled in the annals of cities, and will probably foon become the admiration of the world, and one of the principal emporiums of American commerce.

The inland navigation of the Potomack is fo far advanced, that craft loaded with produce now come down that river and its feveral branches, from upwards of one hundred and eighty miles to the great fails, which are within fourteen miles of the new city. The canals at the great and littie falls are nearly completed, and the locks in fuch forwardnefs, that in the courie off the prefent year, the navigation will be entirely opened between tiele water and the head branches of the Potomack, which will ptoduce a communication by water between the city of Wafhington, and the interior parts of Virginia and Maryland, by means of the Potomack, the Shannandoah, the South Branch, Opecan, cape Capon, Patterion's creek, Conoocheague, and Monocafy, for upwards of two hundred miles, through one of the moft healthy, pleafant, and fertile regions in America, pro-
ducing, in vaft abundance, tobacco of fuperior quality, hemp, Indian corn, wheat and other fmall grain, with fruit and vegetables peculiar to America, in vaft abundance, and equal in quality to any in the United States.

The lands upon the Potomack above the city of Walhington, all around it, and for fixty miles below, are high and dry, abounding with innumerable fprings of excellent water, and are well corered with large timber of various kinds. A few miles below the city, upon the banks of the Potomack, are inexhauftible mountains of excellent free-ftone, of the white and red Portland kinds, of which the public edifices in the city are now building. Above the city, alfo upon the banks of the river, are immenfe quantities of excellent coal, limeftone, and marble, with blue flate of the beft quality.

The founding of this city in fuch an eligible fituation, and upon fuch a liberal and elegant plan, will by future generations be confidered as a high proof of the judgment and wifdom of the preient governmentof the United States, and whilft its name will keep frefh in mind to the end of time, the many virtues and amiable qualities of the Prefident, the city itfelf will be a flanding monument of their public fpirit,

The plan of this eity, agreeably to the directions of the Prefident of the United States, was defigned and drawn by the celebrated Major L'Enfant, and is an inconceivable improvement upon all others, combining not only convenience, regularity, elegance of profpect, and a free circulation of air, but every thing grand and beautiful that can poffibly be introduced into a city.

The city is divided into fquares or grand divifions, by the Itreets running due north, fouth, eaft and weft, which form the ground-work of the plan. However, from the capitol, the Prefident's houfe, and fome of the important areas in the city, run tranfverfe avenues or diagonal flreets, from one material object to another, which not only produce a variety of charming profpects, but remove that infipid famenefs that renders fome other great cities unpleafing. Thefe great leading freets are all one hundred and fixty feet whde, including a pavement of ten feet, and a gravel walk of thirty feet planted with trees on each fide, which will leave eighty feet of paved ftreet for carriages. The reft of the ftreets are in general one hundred and ten feet wide, with a few only ninety feet, except North, South, and Eaft Capitol ftreets, which are one hundred and fixty feet. The diagonal ftreets are named after the refpective States compofing the Union, white thore running north and fouth are, from the capitol
eaftward, named, Eaft Firft frreet, Eaft Second Street, \&c. and thofe weft of it are in the fame manner called Weft. Firft freet, Weft Second ftreet, \&c. thofe running eaft and weft are from the capitol northward named, North A ftreet, North B fireet, \&c. and thofe fouth of it are ealled South A freet, South B ftreet, \&c.

The fquares, or divifions of the city, bave their numbers inferted in the plan, and amount to eleven hundred and fifty. The rectangular squares generally contain from three to fix acres, and are divided into lots of from forty to eighty feet front, and their depth from about one hundred and ten to three hundred feet, according to the fize of the fquare.
The irregolar divinions produced by the diagonal freets are fome of them frall, but are generally in valuable fituations. Their acute points are all to be cut off at forty feet, fo that no houre in the city will have an acute corner. The lots in thefe irregular fquares will all turn at a right angle with the refpective ftreets, although the backs of the houres upon them will not fland parallel to one another, which is a matter of little or no confequence.

By the roles declared and publinied by the Prefident of the United States, for regulating the buildings within the city, all koufes muft be of flone or brick-their walls muft be parallel to the ftreets, and either placed immediately upon them, or withdrawn therefrom at pleafure. The walls of all hoves upon ftreets one hundred and fixty feet wide muft be at leaft thirty feet high; but there is no obligation impofed to . build or improve in any limited time.

The area for the capitol, or houfe for the leghlative bodies, is fituated upon the moff beautiful eminence in the city, about a mile from the Eaftern Branch, and not much more from the Potomack, commanding a full and complete view of every part of the city, as well as a confiderable extent of the country around. The Prefident's houfe will ftand upon a rifing ground, not far from the banks of the Potomack, poffefing a delightful water profpect, together with a commanding view of the capitol, and fome other material paris of the city.
Due fouth from the Prefident's houfe, and due weft from the capitol, run tivo great pleafure parks or malls, which interfect and terminate upon the banks of the Potomack, and are to be ornamented. at the fides by a variety of elegant buildings, and houfes for foreign minifters, \&c.

Interfperfed through the city, where the moft material ftreets crofs one another, are a variety of open areas, formed in various regular figures, which in great citios are extremely ufeful aid orsamental.:

Fifteen of the beft of thefe areas ane to be appropriated to the dif. ferent States compofing the Union; not only to bear their refpetive names, bat as proper places for them to erect itatues, obelifks, or columns, to the memory of their favourite eminent men. Upon the fmall eminence, where a line due weft from the capitol, and due fouth from the Prefident's houfe would interfct, is to be erected an equeftrian ftatue of General Washington The building where Maffachufetts and Georgia ftreet ineets, is intended for 2 Marine Ho/pital, with its gardens.

The area at the fouth end of Eaft Eight freet is for the general exchange, and its public walks, \&c.-The broad black line, which runs along part of North B freet, and, feparating, joins the Eaftern Branch at two places, is a canal, which is to be eighty feet wide, and eight feet deep. The area, where South $G$ ftreet crofles the canal, is intended to contain a city hall, and a bason of water; there being 2 very large fpring in the middle of it.

The area, at the junction of the rivers, is for' a fort, magazines, and arfenals.

At the eaft end of Eaft Capitol Itreet isito be a bridge, and the prefent ferry is at the lower end of Kentucky ftreet, where the great read now croffes the Eaftern Branch. The Tiber, which is the principal ftream that pafles through the city, is to be collected in a grand refervoir befide the capitol, from whence it will be carried in pipes to different parts of the city; while its furplus will fall down in beautiful cafcades, through the public gardens weft of the capitol into the canal. In various parts of the city, places are allotted for market houfes, churches, colleges, theatres, \&cc. In order to execute the plan, a true meridional line was drawn by celeftial obfervation, which paffes through the area intended for the capitol. This line was croffed by another, running due eaft and weft, which paffes through the fame area. Thefe lines were accurately meafured, and made the batis on which the whole plan was executed. All the lines were ran by a tranfit inftrument, and the acute angles determined by ádual: meafurement, thus leaving nothing to the uncertainty of the comgass.

The Prefident of the United States in locating the feat of the citys prevailed upon the proprietors of the foil to cede a certain portion of the lots in every fituation, to be fold by his direction, and the proceeds to be folely applied to the public buildings, and other works of public utility within the city. This grant will produce about fifteen thoufand lots, and will be fufficient, not only to erect the public buildings, but to dig the canal, conduct water through the city, and to pave and light the fireeto, which will fave a heavy tax that arifes in other cities, and confequently render the lots confiderably more valuable.

The grants of money made by Virginia and Maryland being fufficient, few of the public lots were fold, till the $i 7$ th day of September, 1793, when the demand was confiderable, as the monied men in Eurnpe and America had turned their attention to this great national object.

At the clofe of the year 1792, moft of the freets were runs, and the fquares divided into lots. The canal was partly dug, and the greateft part of the materials provided for the public buildings, whicls are entirely of freeftone poliflied, and are now carrying on with all poffible expedition. Several private houfes were erected, and a great many proprietors of lots were preparing to build. The city now makes a noble appearance, many of the public buildings being in great forwardnefs, or finithed, and a great number of houfes built. In the month of June laft, eleven thoufand artificers, befides labourers, were employed in the different works.

The public lots in the city of Wafhington open a large field for fpeculation in America, and there is every probability of their being run up to an enormous price, as the public buildings are advanced; for although lands in America, from their quantity, are lefs valuable than thefe in Britain, yet lots in cities geneally fell high.

# VIIRGINIA. 

## SITUATION, EXTENT, \&C.

$T$
HIS State is firiuated between ${ }^{\circ} 0^{\circ}$ and $8^{\circ}$ weft longitude from Philadelphia, and $36^{\circ} 30^{\prime}$, and $40^{\circ} 30^{\circ}$ north tatitude. Its length is about four hundred and forty-fix miles, and its breadth two hundred and twenty-four. It is bounded on the eaft by the Atlantic, on the north by a line of latitude, croffing the eaftern thore through Watkins's Point, being about $37^{\circ} 57^{\prime}$ north latitude; from thence by a fraight line to Cinquac, near the mouth of the Potomack; thence by the Potomack, which is common to Virginia and Maryland, to the firff fountain of iss northern branch; thence by a meridian line, paffing through that fountain till it interfects a line running eaft and̉ wetit, in latitude $39^{\circ} 43^{\prime} 424^{\prime \prime}$ which divides Maryland from Pennfy ${ }^{1-}$ vania, which was marked by Meffrs. Mafon and Dixon; thence by. that line, and a continuation of it weftwardly to the completion of five degrees of longitude from the caftern boundary of Pennfylvania, in the fame latitude, and thence by a meridian line to the Ohio; on the weft by the Ohio and Mififfippi, to latitude $3^{60} 30^{\prime}$ north; and on the fouth by the line of latitude laft-mentioned. By admeafurements through nearly the whole of this laft line, and lupplying the unmeafured parts from goced data, the Atlantic and Mifilifippi are found in this latitude to be feven hundred and fifty-eight miles diftant, equal to $13^{\circ} 3^{\circ}$ of longitade, reckoring fifty-five miles and three thoufand one hundred and forty-four feet to the degree. This being our comprehenfion of American longitude, that of their latitude, taken between this and Mafon and Dison's line, is $3^{\prime} 13^{\prime} 424^{\prime \prime}$, equal to Voc. III.
about two hundred and twenty three miles, fuppofing a degree of a great circle to be fixty-nine miles, eight hundred and fixty-four feet as computed by Caffini. Thefe boundaries include an area fomewhat triangular, of one hundred and twenty-one thoufand five hundred and twenty-five fquare miles, whereof, feventy-nine thoufand fix hundred and fifty lie weftward of the Allegany mountains, and fifty-feven thoufand and thirty-four weftward of the meridian of the mouth of the Great Kanhawa. This State is therefore one third larger than the iflands of Great-Britain and Ireland; which are reckoned at eighty-eight thoufand three hundred and fifty-feven fquare miles.

Thefe limits refult from, rft, The antient charters from the crown of England. 2d, The grant of Maryland to Lord Baltimore; and the fubfequent determinations of thie Britifh court as to the extent of that grant. 3d, The grant of Penafylvania to William Penn, and a compact been the General Afiemblies of the Commonwealth of Virginia and Pennfylvania as to the extent of that grant. 4th, The grantof Carolina, and actual location of its northern boundary, by confent of both parties. $5^{\text {th, }}$, The treaty of Paris of 1763 . 6th, The confirmation of the charters of the neighbouring States by the Convention of Virginia at the time of conitituting their Commonwealth. 7th, The ceffion made by Virginia to Congrefs of all the lands to which they had titie on the north fide of the Ohio.

## CLIMATE.

In an extenfive country, it will be expected that the climate is not the fame in all its parts. It is remarkable that, proceeding on the fume parallel of latitude wefferly, the climate becomes coleer in like manner as when you proceed northwardly. This continues to be the cafe till you attain the fummit of the Allegany, which is the highef land betircen the ocean and the Miffiffippi. From thence, defeending in the fame latitude to the Miffiflappi, the change reverfes; and, if we may believe travellers, it becomes warmer there than it is in the fame latitude on the fea fide. Their teftimony is itrengthened by the vegetables and animals which fubfift and multipliy there naturally, and do not on the fea coaft. Thus catalpas grow fpontaneoufly on the Miffifippi, as far as the latitude of $37^{\circ}$, and reeds as far as $3^{\circ} 8^{\circ}$. Parroquets even winter on the Scioto, in the 3gth degree of lan titude.

The fouth-weft winds, eaft of the mountains, are moft predomiaant. Next to thefe, on the fea coaft, the north-eaft, and at the mountains, the north-weft winds prevail. The difference between thefe winds is very great. The north-eaft is loaded with vapour, infomuch that the falt manufacturers have found that their chryftals would not fhoot while that blows; it occafions a diftreffing chill, and a heavinels and depreffion of the fipits. The north-weft is dry, cooling, elaftic, and animating. The eaft and fouth-eaft breezes come on generally in the afternoon. They have advanced into the country very fenfibly within the memory of people now living. Mr. Jefferfon reckans the extremes of heat and cold to be $98^{\circ}$ above and $6^{\circ}$ below 0 , in Fahrenheit's thermometer.
That fluctuation between heat and cold, fo defructive to fruit, in the fpring feafon, prevails iefs in Virginia than in Pennfylvania; nor is the overflowing of the rivers in.Virginia fo extenfive or fo frequenz at that fearon, as thofe of the New-England States; becaufe the fnows in the former do not lie accumulating all winter, to be diffolved all at once in the fpring, as they do fometimes in the latter. In Virginia, below the mountains, foow feldom lits more than a day or two, and feldom a week; and the large rivers feldom freeze over. The fluctuation of weather, however, is fufficient to render the winters and fprings very unwholefome, as the inhabitants during thofe feafons have to walk in almoft perpetual mire.

The months of June and July, though often the hotteft, are the moft healthy in the year. The weather is then dry and lefs liable to change than in Auguft and September, when the rain commences, and fudden variations take place.
On the fea coaft, the land is low, generally within twelve feet of the level of the fea, interfected in all directions with falt creeks and rivers, the beads of which form fwamps and marfhes, and fenny. ground, copered with water in wet feafons. The uncultivated lands are covered with large trees and thick underwood. The vicinity of the fea, and falt creeks and rivers, occafion a conflant moilfure and warmth of the atmofphere, fo that although under the fame latitude, one hundred or one hundred. and fitty miles in the country, deepp fnows; and frozen rivers frequently happen, for a fhort feafon, yet here fuch occurrences are. confidered as phenomena; for thefe reafons, the trees are often in hoom as early as the laft of February; from this period, however,
till the end of April, the inhabitants are incommoded by cold rains, piercing rinds, and fharp frofts, which fubject them to the inflammatory difeafes; known here under the names of pleurify and peripneumony.

## FACE OF THE COUNTRY, MOUNTALNS, RIVERS, \&c.

The whole country below the mountains, which are about one hundred and fifty, fome fay two hundred miles from the fea, is level, and feems from various appearances to have been once wafhed by the fea. The land between York and James rivers is very level, and its furface about forty feet above high water mark. It appears, from obfervation, to have arifen to its prefent height, at different periods far diftant from each other, and that at thefe periods it was wafhed by the fea; for near York-town, where the banks are perpendicular, you firft fee a feratum, intermixed with fmall thells, refembling a mixture of clay and fand, and about five feet thick; on this lies horizontally, fmall white Anells, cockle, clam, \&ce an inch or two thick; then a body of earth fimilar to that firft mentioned, eighteen inches thick; then a layer of fhells and another body of earth; on this a layer of three feet of white fhells mixed with fand, on which lay a body of oyfter fhells $\sqrt{ } 1 \times$ feet thick, which are covered with earth to the furface. The oyfter thells are fo united by a very ftrong cement that they fall, only when undermined, and then in large bodies, from one to twenty tons weight. They have the appearance on the flore of large Focks.*

Thefe appearances continue in a greater or lefs de, et in the banks of James river, one hundred miles from the fegthe appearances then vary, and the banks are filied with fharks'tetth, bones of large and fmall fifi petrified, and many other petrifactions, fome refembling the bones of land and other animals, and alfo vegetable fubftances. Thefe appearances are not confined to the river banks, but are feen in various places in gưllies at confiderable diftances from the rivers. In one part of the State for feventy miles in length, by finking a well, you apparently come to the bottom of what was formerly 3 watercourle. And even as kigh up as Botetourt county, among the Allegany mountains, there is a tract of land, judged to be forty thoufaud acres, firrounded on every fide by mountains, which is entirely co-

[^11]vered with oyfter and cockle flells, and, by fome gullies, they appear to be of confiderable depth. A plantation at Day's Point, on James river, of as many as one thoufand acres, appears at a diflance as if covered with frow, but on examination the white appearance is found to arife from a bed of clam thells, which by repeated plowing have become fine and mixed with the earth.

It is worthy notice, that the mountains in this State are not folitary and feattered confufedly over the face of the country; but contmence at about one hundred and fifty miles from the fea coaft, are difpofed in ridges one behind another, running nearly parallel with the fea coaft, though rather approaching it as they advance northeaftwardly. To the fouth-wef, as the tract of country between the fea ceaft and the Miffiffippi becomes narrower, the mountains converge into a fingle ridge; which, as it approaches the gulph of Mexico, fubfides into plain country, and gives rife to fome of the waters of that gulph, and particularly to a river called Apalachicola, probably from the Apalachies, an Indian nation formerly refiding on it. Hence the mountains giving rife to that river, and feen from its various parts, were called the Apalachian mountains, being in fact the end or termination only of the great ridges paffing through the continent. European geographers, however, have extended the fame northwardly as far as the monutains extended; fome giving it after their feparation into different ridges, to the Blue Ridge, others to the North mountains, others to the Allcgany, others to the Laurel Ridge, as may be feen in their different maps. But none of thefe ridges were ever known by that name to the inhabitants, either native or emigrant, but as they faw them fo called in European maps. In the fame direction generally are the vcins of lime-ftone; coal, and other minerals hitherto difoovered; and fo range the falls of the great rivers. But the courfes of the great rivers are at right angles with thefe. James and the Potomack penetrate through all the ridges of mountains eaftward of the Allegany, which is broken by no watercourfe. It is in fact the fpine of the country between the Atlantic on one fide, and the Miffifippi and St. Lawrence on the other. The paffage of the Potomack through the Blue ridge is perhaps one of the moft ftupendous feenes in nature. You fand on a very high point of land. On your right comes up the Shenandoah, having ranged along the foot of the mountain an hundred miles to feek a vent; on your ieft approaches the Potomack, in queft of a paftage alfo: in the mo-
ment of their junction, they rufh together againft the mointain, send it afunder, and pafs off to the fea. The firf glance of this fcene hurries our fenfes into the opinion, that this earth has been created in time, that the mountains were formed firf, that the rivers began to flow afterwards; that in this place particularly they have been dammed up by the Blue ridge of mountains, and have formed an ocean which filled the whole valley; that continuing to rife, they have at length broken over at this fpot, and have torn the mountain down from its fummit to its bafe. The piles of rock on each hand, but particuiarly on the Shenandoah, the evident marks of their difruption and avulfion from their beds by the moft powerful agents of nature, corroborate the impreffion : but the diftant finifhing which nature has given to the picture, is of a very different character. It is a true contraft to the fore ground; it is as placid and delightful, an that is wild and tremendous. For the mountain, being cloven afunder, prefents to the eye, through the cleft, a fmall catch of fmooth blue horizon, at an infinite diftance, in the plain country, inviting you, as it were, from the riot and tumult roaring around, to pafs through the breach and participate of the calm below. Here the eye ultimately compofes itfelf; and that way too, the road actually leads. You crofs the Potomack above the junction, pafs along its fide through the bafe of the mountain for three miles, its terrible precipices hanging in fragments over you, and within about twenty miles reach Frederick-town and the fine country round that. This frene is worth a voyage acrofs the Atlantic. Yet here, as in the neighbourhood of the Natural Bridge, are people who have patted their lives within half a dozen miles, and have never been to ftrvey thefe monuments of a war between rivers and mountains, which muft have fhaken the earth iffelf to its center. The heigit of the mountains has not yet been eftimated with any degree of exatnefs. The Allegany being the great ridge which divides the waters of the 'Atlantic from thofe of the Miffifippi, its fummit is doubtlefs more elevated above the ocean than that of any other mountain. But its relative height, compared with the bafe on which it flands, is nat fo great as that of fome others, the country rifing behind the fucceffive ridges like the fteps of ftairs. The mountains of the Blue ridge, and of there the peaks of Otter are thought to be of a greater height meafured from their bafe thân any others in Virginia, and perhaps in North-America. From data, which may be found a tolerable conjecture, we
fuppofe the higheft peak to be about four thoufaind feet perpendicular; which is not a fifth part of the height of the mountains of SouthAmerica, nor one third of the height which would be necetiary in our latitude to preferve ice in the open air unmelted through the year: Theridge of mountains next beyond the Blue ridge, called the North mountain, is of the greateft extent; for which reafon they are hamed by the Indians the Endlefs mountains.
The Ouafioto mountains are fifty or fixty miles wide at the Gap. Thefe mountains abound in coal, lime, and free-fonce; the fummits of them are generally covered with a good foil, and a variety of umber; and the low, intervale lands are rich and remarkably well watered.
An infpection of the map of Virginia will give a better idea of the geography of its rivers, than any defeription in writing. Their navigation, however, may be imperfectly noted.
Roanoke, fo far as it lies within this State, is no where navigable but for canoes, or light batteaux; and even for thefe, in fuch detached parcels as to hive prevented the inhabitants from availing themfelves of it $\bar{t}$ all.
James river, and its waters, afford navigation as follows : the whole of Elizabeth river, the loweft of thofe which run into James river, is a harbour, and would contain upwards of three hundred fhips. The channel is from one hundred and fifty to two hundred fathoms wide; and at cemmon flood tide, affords eighteen feet water to Norfolk. The Strafford, a fixty gun hip, went there, lightening. herielf acrofs the bar at Sowell's point. The Fier Rodrigue, pierced for fixty-four guns, and carrying fifty, went there withou: lightening. Craney ifland, at the mouth of this river, commands its channel tolerably well.
Nanfemond river is naviga:ire to Sleepy Hole, for veffels of two hundred and fifty tons; to Suffolk, for thofe ot one hundred tons ; and to Milner's, for thofe of twenty-five. Pagain creek affords eight or ten feet water to Smithfeld, which admits veffels of twenty tons. Chickabominy has at its mouth a bar, on which is only twelve-fect water at common flood tide. Veffels paffing that, may go eight miles up the river; thofe of ten feet draught may go four miles farther, and thofe of fix tons burthen twenty miles farther.
The Appanattex may be navigated as far as Broadways, by any veffel which has croffed Harifon's bar in'James river; it keeps eigit
or nine feet water a mile or two higher up to Fifher's bar, and four feet on that and upwards to Peterburg, where all navigation ceafes.
James river itfelf affords harbour for veffels of any fize at Hamp: ion road, but not in fafety through the whole winter; and there is navigable water for them as far as Mulberry illand. A forty gun flip goes to James-town, and, lightening herfelf, may pafs to Harrifon's bar, on which there is only fifteen feet water. Veffels of two hundred and-fifty torts mày go to Warwick; thofe of one hundred and twenty: five go to Rocket's, a mile below Richmond; from thence is about feven feet water to Riclimiond; and about the center of the town; four feet and a half, where the navigation is interrupted by falls; which in a courfe of fix miles defend about eighty feet perpendicular: above thete it is refumed in canoes and batteaux, and is profeculed fafely and advantageoufly to within ten miles of the Bline Ridge; and.even through the Blue Ridge a ton weight has been brought; and the expenfe would not be great, when compared with its object, to oppen a tolerable navigation up Jackfon's river and Carpenter's.creck, to within twenty-five miles of Howard's creek of Green Briar, bbth of which have then water enough to float veffels finto the Great Kanhawa. In fome future ftate of population, it is podifile that its navigation may alfo be made to inferlock with that of Potohack, and throigh that to communicate by a fhort portage with the Ohio. It is to be noted, that this river is called in the maps James river, only to its confluence with the Rivanna; thence to the Blue Ridge it is called the Fluvanna; and thence to its fource, Jackfon's river. But in common fpeech it is called James river to its fource.

The Rivanna, a branch of James river, is navigable for canoes yind batteaux to its interfection with the fouth-weft mountains, which is about twenty-two miles; and may ealily be opened to navigation through thofe mountains, to its fork above Charlottefivile.

York river, at York-torn, affords the beft harbour in the State for veffels of the largeft fize. The river there narrorss to the width of 2 mile; and is contained within very high banks, clofe under which the veffels may ride. It holds four fathon water at high tide for twent-five miles above York to the mouth of Poropotank, where the tiver is a mile and a hall wideg and the channel only feventy-five fawhom, and pafing under a bigh batk. At the confluence of Pa -
ensnkey and-Mattapony it is reduced to three fathom depth, which continues up Pamunkey to Cumberland, where the width is one hundred yards, and up Mattapony to within two miles of Frazier's ferry, where it becomes two and a half fathom deep, and holds that about five miles. Pamurnkey is then capable of navigation for loaded flats to Brockman's bridge, fifty miles above Hanover-town, and Mattapony to Downer's bridge, feventy miles above its mouth.

Piankatank, the little rivers making out of Nobjack bay, and thofe of the eaftern flore, receive only very fmall veffels, and thefe. can but enter them. Rappahannock affords four fathom water to Hobbe's Hole, and tivo fathoms from thence to Frederickiburg, one hundred and ten miles.

The Potomack is feven and a half miles wide at the moiath; four and a half at Nomony bay ; three at Aquia; one and a half at Hallooing "point; one and a quarter at Alexandria. Its foundings are feven fathom at the mouth; five at St. George's illand; four and a balf at Lower Matchodic; three at Swan's point, and thence up to Alexandria; thence teh feet water to the falls, which are thirteen miles above Alexandria. The tides in the Potomack are not very ftrong, excepting after great rains, when the ebb is pretty ftrong, then there is little or no flood; and there is never more than four or five hours flood, except with long and ftrong fouth winds.

The diftance from the capes of Virginia to the termination of the tide water in this river is above three hundred miles, and navigable for flips of the greaseft burthen, nearly that diftance. From thence this river, obftructed by four confiderable falls, extends through a vaft tract of inhabited country towards its fource. Thefe falls are, ift, The Little Falls, three miles above tide water, in which diftance there is a fall of thirty-fix feet; 2d, The Great Falls, fix miles higher, where is a fall of feventy-fix feet in one mile and a quarter 3d, The Seneca Falls, fix miles above the former, which form flort, irregular rapids, with a fall of about ten feet; and 4 th, The Shenandoah Falls, fixty miles from the Seneca, where is a fall of about thirty feet in three miles: from which laft, fort Cumberland is about one hardred and twenty miles diftant. The obftructions whieh are oppofed to the navigation above and between theie falls are of little confequence.

Early in the year 1785 , the legiflatures of Virginia and Maryland paffed acts to encourage opening the navigation of this river. It was eftimated that the expenfe of the works would amount to fifty thoufand pounds fterling, and ten years were allowed for their completion; but the prefident and directors of the incorporated company have fince fuppofed that forty-ifive thoufand pounds would be adequate to the operation, and that it would be accomplifhed in a fhorter period than was ftipulated. Their calculations are founded on the progrefs already made, and the fummary mode eftablifhed for enforcing the collection of the dividends, as the money may become neceflary.

As foon' as the proprietors thall begin to receive toll, they will doubtlefs find an ample compenfaion for their pecuniary advances. By an eftimate made many years ago, it was catculated that the amount in the commencement would be at the rate of eleven thoufand eight hundred and feventy-five pounds, Virginia currency, per anmum. The toll muit every year become more productive; as the equantity of articles for exportation will be augmented in a rapid ratio, with the increafe of population and the extenfion of fettlements. In the mean time the effect will be immediately feen in the agriculture of the interior country; for the multitude of horfes now employed in carrying produce to market, will then be ufed altogether for the purpofes of tillage. But in order to form juft conceptions. of the utility of this inland navigation, it would be requifite to notice the long rivers which empty into the Potomačk, and even to take a furvey of the geographical pofition of the weftern waters.

The Shenandoah, which empties juft above the Blue mountains, may, according to report, be made navigable, at a trifing expenfe, more than one hundred and fifty miles from its confluence with the Potomack; and will receive and bear the produce of the richeft part of the State. Commiffoners have been appointed to form a plan, and to eftimate the expenfe of opening the channel of this river, if on examination it fhould be found practicable. The South Branch, ftill higher, is navigable in its actual condition nearly or quite one hundred miles, through exceedingly fertile lands. Between thefe on the Virginia fide are feveral fmaller rivers, that may with eafe be improred, fo âs to afford a paffage for boats. On the Maryland fide are the Monocafy, Antietam, and Conegocheague, fome of which
pars through the State of Maryland, and have their fcurces in Pennfylvania.
From fort Cumberland, or Wills' creek, one or two good waggon roads may be had, where the diftance is from thirty-five to forty miles, to the Youghiogany, a large and navigable branch of the Monongahela, which laft forms a junction with the Allegany at fort Pitt.
But by paffing farther up the Potomack than fort Cumberland, which may very eafily be done, a portage by a good waggon road to Cheat river, another large branch of the Monongahela, can be obtained through a fpace which fome fay is twenty, others twenty-two, others twenty-five, and none more than thirty miles.
When arrived at either of thefe weitern waters, the navigation through that immenfe region is opened by a thoufand directions, and to the lakes in feveral places by portages of lefs than ten miles; and by one portage, it is afferted, of not more than a fingle mile.
Notwithltanding it was fneeringly faid by fome foreigners, at the peginning of this undertaking, that the Americans were fond of engaging in fplendid projects which they could never accomplifh, yet it is hoped the fuccef's of this firft effay towards improving their inland navigation, will refcue them from the reproaci intended to have been fixed upon their national character, by the unmerited imputation.
The Great Kanhawa is a river of confiderable note for the fertility. of its land, and ftill more, as leading towards the head waters of James river. Neverthelefs, it is doubtful whether its great and nu: merous rapids 'will admit a navigation, but at an expente to which it will require ages to render its inkabitants equal. The great obftacles begin at what are called the Great Falls, ninety miles above the mouth, below which are only five or fix rapids, and thefe paffable, with fome difficulty, even at low water. From the falls to the mouth of Green Briar is one hundred miles, and thence to the lead mines one hundred and twenty. It is two hundred and eighty yards wide at its mouth.
The Little Kanhawa is one bundred and fifty yards wide at the mouth. It yields a navigation of ten miles only. Perhaps its northern braich, called Junius's creek, which interlocks with the weftern waters of Monongahela, may one day admit a horter paffige from the latter into the Ohio.

Befides the rivers we have now mentioned, there are many others of leis note, neverthelefs the State does not abound with good filh; flurgeon, fhad land herring are the molt plenty; perch, fheepfliead, drum, rock fifl, and trout, are common; befides thefe, they have oyfters, crabs, flirimps, \&c. in aburdance. The fprings in this State are almoft innumerable. In Augufta there is a remarkable cafcade, it bears the name of the Falling Spring. It is a water of James river, where it is called Jackfon's river, rifing in the warm spring mountains about twenty miles fouth-weft of the warm fpring, and flowing into that valley. About three quarters of a mile from its fource it falls over a rock kwo hundred feet into the valley delow. The fheet of water is broken in its breadth by the rock in two or three places, but not at all in its height. Between the fheet and rock, at the bottom, you may walk acrofs dry. This cataract will bear no comparifon with that of Niagara, as to the quantity of water compofing it, the fheet being only twelve for fifteen eet wide above, and fomewhat more fpread below; but it is half as high again.

## SOIL, PRODUCTIONS; \&c.

The foil below the mountains feems to have acquired a character for goodnefs which it by no means defervese. Though not rich, it is well fuited to the growth of tobacco and lndian corn, and parts of it for wheat. Good crops of cotton, flax and bempare alfo raifed; and in fome counties they have plenty of cyder, and exquifite brandy, diftilled from peaches, which grow in great abundance upon the numerous rivers of the Chefapeak.

The planters, before the war, paid their principal attention to the culture of tobacco, of which there ufed to be exported, generally, fifty-five thoufand hogtheads a year. Since the revolution they are turning their attention more to the cultivation of wheat, Indian corn, barley, flax and hemp. It is expected that this State will add the article of rice to the lift of exports; as it is fuppofed a large body of fwamp, in the eafternmoft counties, is capable of producing it.

Horned or neat cattle are bred in great numbers in the weftern counties of Virginia, as well as the States fouth of it, where they have an extenfive range, and mild winters, without any permanent fnows. They run at large ${ }_{j}$ are not houfed, and multiply very faft.
"In the lower parts of the State a difeafe prevails among the near: cattle which proves fatal to all that are not bred there. The oxen from the more northern States, which were employed at the fiege of York-town, in OCtober 178i, almoft all died, fometimes forty of them in a night, and often fuddenly dropped down dead in the roads. It is faid that the feeds of this difeafe werebrought from the Havannah to South Carolina or Georgia in fome hides, and that the difeafe' has made a progrefs northward to Virginia. Lord Dunmore imperted fome cattle from Rhode-Illand, and $\cdot$ kept them confined in a fonall pafture, near his feat, where no cattle had been for fome years, and where they could not intermix with other cattle, and yet they foon died."

The gentemen of this State being fond of pleafure, have taken much pains to raife a good breed of horfes, and have fucceeded in it beyond any of the other States in the Union. They will give one thoufand pounds flerling for a good feed horfe. Horfe-racing has had a great tendency to encourage the breeding of good horles, as it affords an opportunity of putting them to the trial of their fpeed. They are more elegant, and will perform more fervice than the horles of the northern States.
With refpect to fubterraneous productions, Virginia is the moft pregnant with minerals and foffils of any State in the Union. Mr. Jefierfon mentions a lump of gold ore of about four pounds weight found near the falls. of Rappahannock river, which yielded feventeen penny-weights of gold, of extraordinary ductility; but no other indication of gold has been difcovered in its neighbourhood.
On the great Kanhawa, oppofite to the mouth of Cripple creek, and alfo aboutt twenty-five miles from the fouthern boundary of the State, in the county of Montgomery, are mines of lead. The metal is mixed, fometimes with earth, and fometimes with rock, which requires the force of gunpowder to open it; and is accompanied with a portion of filver, but too fmall to be worth feparation under any procefs hitherto attempted there. The proportion yielded is from fifty to eighty pounds of pure lead from an hundred pounds of wafhed ore. The moft common is that of fixty to the hundred pounds. The veins are fometimes moft flattering; at others they difappear fuddenly and totally. They enter the fide of the hill, and proceed horizontally. Two of them bave been wrought by the pub-

## lic.

lic. Thefe would employ about fifty labourers to advantage. Thirty men, who have at the fame time raifed their own corn, have produced fixty tons of lead in the year; but the general quantity is from twents to twenty-five tons. The prefént furnace is a mile from the ore bank, and on the oppofite fide of the river. The ore is firft waggoned to the river, a quarter of a mile, then laden on board of canoes and carried acrofs the river, which is there about two hundred yards wide, and then again taken into waggons and carried to the furnace. This mode was originally adopted, that they might avail themfelves of a good fituation oni a creek, for a pounding mill; but it would be eafy to have the furnace and pounding mill on the fame fide of the river, which would yield water, without any dam, by a canal of about half a mile in length. From the furnace the lead is tranfported one hundred and thirty miles along a good road, leading through the peaks of Otter to Lynch's ferry, or Winfton's, on James river, from whence it is carried by water about the fame diftance to Weftham. This land carriage may be greatly flortened, by delivering the lead on James river, above the Blue Ridge, from whence a ton weight has been brought in two canoes. The great Kanhawa has confiderable falls in the nelghlourhood of the mines. About feven miles below are three falls, of three or four feet perpendicular each; and three miles above is a rapid of three miles continuance, which has been compared in its deficent to the great fall of James river; yet it is the opinion, that they may be laid open for ufeful navigation, fo as to reduce very much the portage between the Kanhawa and James river.
A valuable lead mine is faid to have been difcovered in Cumberland, below the mouth of Red river. The greateft, however, known in the weftern country are on the Miffifippi, extending from the mouth of Rock river an hundred and fifty miles upwards. Thefe are not wrought, the lead ufed in that country being from the banks on the Spanifh fide of the Mifififippi, oppofite to Kafkankia.

A mine of copper was opened in the county of Amherft, on the north fide of James river, and another in the oppofite county, on the fouth fide. However, either from bad management or the poverty of the veins, they were difcontinued. There are feveral iron mines in this State; a few years ago there were fix worked; two furnaces made about onetiundred and fify tons of bar iron each; four
others made each from fix hundred to one thoufand fix hundred sons of pig iron anotally. Befides thefe, a forge at Frederickfburgh made about three hundred tons a year of bar iron, from pigs int ported from Maryland; and a forge on Neapfco of Potomack worked in the fame way. The indications of iron in other places are numerous, and difperfed through all the middle country. The toughnefs of the caft iron of fome of the furnaces is very remarkabic. Pots and other utenfils, caft thinner than ufual, of this iron, may be fafely thrown into or out of the waggons in which they are traniported. Salt pans made of the fame, and no longer wanted for that purpofe, cannot be broken up in order to be melted again, unlefs previoufly drilled in many parts.

In the weftempart of the State, we are informen, there are likewife iron mines on Chefnut creek, a branch of the great Kanhawa, near where it croffes the Carolina line; and in other places.
Confiderable quantities of black lead are taken occafionally for ufe from: Winterham, in the connty of Amelia. There is no work eftablifhed at it, thofe who want go and procure it for themfelves.

The country on both fides of James river, from fifteen to twenty miles above Richmond, and for feveral miles northward and fouthward is replete with mineral coal of a very excellent quality. Being in the hands of many proprietors, pits have been opened and worked to an extert equal to the demand. The pits which have been opened lie one hundred and fifty or two hundred feet above the bed of the river, and have been very little incommoded with water. The finf difcovery of the coal is faid to have been made by a boy digging after a cray-fift ; it has alfo been found on the bottom of trees blown up. In many. places it lies within three or four feet of the furface of the ground. It is conjectured, that five hundred thoufand burhels might be raifed from one pit in twelve months.
In the weftern country, coal is known to be in fo many places, as to have indaced an opinion, that the whole tract between the Laurel mountain, Miffifippi and Ohio, yields coal. It is alfo known in many places on the north fide of the Ohio. The coal at Pitteburgh is of a very fuperior quality; a bed of it at that place has been on fire fince the year 1765. Another coal hill on the Pike Run of Monongahela las been on fire for feveral years.

Mr. Jefferfon informs us, that he, has known one inflance of an emerald found in this country. Amethyfts have been frequent, and chryftals common; yet not in fuch numbers any of them as to be worth feeking.

There is very good marble, and in very great abundance, on James siver, at the mouth of Rockifll: fome white and as pure as one minghe expect to find on the furface of the earth; but generally variegated with red, blue and purple. None of it has ever beein worked: it forms a very large precipice, which hangs over a navigable part of the river.

But one vein of lime-ftone is known below the Blue Ridge; its firf appearance is in Prince Willian, two miles below the Pignut sidge of mountains; thence it paftes on nearly parallel with that, and croles the Rivanna about five miles below it, where it is called the South weft ridge; it then croffes Hardware, above the mouth of Hudfon's creek, James river, at the mouth of Rockfith, at the marbie quarry before fpoken of, probably runs up that river to where it appears again at Rofs's irou works, and fo paffes off fouth-weftwardly by Flat creek of the river Otter: it is never more than an hundred yards :wide. From the Blue ridge weftwardly the whole country feems to be founded on a rock of lime-ftone, befides infiuite quantities on the furface, both loofe and fixed: this is cut into beds, which range, as the mountains and fea coaft do, from touth-weft to north-eaft, the lamina of each bed declining from the horizon towards a parallelifm with the axis of the earth. Mr. Jefferfon, being frruck with this obfervation, made, with a quadrant, a great number af trials on the angles of their declination, and found them to vary from $22^{\circ}$ to $60^{\circ}$; but averaging all his trials, the refult was within one-thixd of a degree of the elevation of the pole or latitude of the place, and much the greateft part of them taken feparately were litele different from that; by which it appears, that thefe lamina萿e, in the main, parallel with the axis of the earth. In fome inftances; indeet, he found them perpendicular, and even reclining the other way; but thefe were extrenely pare, and always attended - with fgns of convulfion, or other circumfances of fingularity, which admitted a poffibility of removal from their original pofition. Thefe trials were made between Madifon's cave and the Potomack.

Near the eaftern foot of the north mountain are immenfe bodies of $S c b{ }^{2} f_{2}$ containing imprefions of thells in a variety of forms. Mr.

Jefferion received petrified fhells of very different kinds, from the firft fources of the Kentucky, which bore "no refernblance to any he had ever feen on the tide waters. It is faid, that thells are found in the Andes, in South-America, fifteen thoufand feet above the level of the ocean. This is confidered by many, both of the learned and unlearned, as a proof of an univerfal deluge.

There is great abundance, more efpecially when you approach the mountains, of ftone of white, blue, brown, and other colours, fit for the chiffel, good mill-fore, fach alfo as fands the fire, and flate-ftone. We are told of flint, fit for gan-fints, on the Me herrin in Brunfwick, on the Mifffippi, between the Ohio and Kafkalkia, and on others of the weftern waters. Ifinglafs, or mica, is in feveral places; loadftone alfo, and an afbeftos of a ligneous texture, is fometimes to be met with.

Marble abounds generally. A clay, of which, like the Sturbridge in England, bricks are made, which will refift long the action of fire, has been found on Tuckahoe creek of James river, and no doubt will be found in other places. Chalk is faid to be in Botetourt and Bedford. In the latter county is fome earth, believed to be gypfeous. Ochres are found in various parts.

In the lime-ftone country are many caves, the earthly floors of which are impregnated with nitre. On Rich creek, a brảnch of the Great Kanhawa, about fixty miles below the lead mines, is a very large one, about twenty yards wide, and entering a hill a quarter or half a mile. The vault is of rock, from rine to fifteen or twenty feet above the floor. A Mr. Lynch, who gives this account, undertook to extract the nitre. Befides a coat of the fale which had formed on the vault and floor, he found the earth highly impregnated to the depth of feven feet in fome places, and generally of three, every bufhel yielding on an average three pounds of nitre. Mr. Lynch having made about a thourand pounds of the falt from it, configned it to fome others, who have fince made large quantities. They have done this by purfuing the cave into the hill, never trying a fecond time the earth they have once exhaufted, to fee how far or foon it receives another impregnation. At leaft fifty of thefe caves are worked on the Greenbriar, and there are many of them known on Cumberland river.
An intelligent gentleman, an inhabitant of Virginia, fuppofes, that the caves lately difcovered yield it in fuch abundance, that he Vol. III. $\quad \mathbf{N} \quad$ judges
judges five hundred thoufand pounds of falfetre might be collected annually.

## MEDICINAL SPRINGS.

There are feveral medicinal fpriags, fome of which are indubitably efficacious, while others feem to owe their reputation as much to fancy, and change of air and regimen, as to their real virtues. None of them have undergone a chemical analyfis in fkilful hands, nor been fo far the fubject of obfervation, as to have produced a reduction into claffes, of the diforders which they relieve; it is in our power to give little more than an enumeration of them.

The moft efficacious of thefe are two fprings in Augufta, near the fources of James river, where it is called Jackfon's river. They rife near the foot of the ridge of mountains, generally called the Warm Spring mountain, but in the maps Jackfon's mountains. The one is diftinguifhed by the name of the Warm Spring, and the other of the Hot Spring. The Warm Spring iffues with a very bold ftream, fufficient to work a grift mill, and to keep the waters of its bafon, which is ${ }^{*}$ thirty feet in diameter, at the vital warmth, viz. $96^{\circ}$ of Fahrenteir's thermometer. The matter which thefe waters is allied to is very volatile ; its fmell indicates it to be fulphureous, as alfo does the circumftance of turning filver black: they relieve rheumatifms : other complaints alfo of very different natures have been removed or leffened by them. It raias here four or five days in everỷ week.

The hot fpring is about fix miles from the warm, is nuch fmaller, and has been fo hot as to have boiled an egg. Some believe its degree of heat to be leffened: it 'raifes the mercury in Fabrenheit's thermometer to $112^{\circ}$, which is fever heat ; it fometimes relieves where the warm fpring fails. A fountain of common water, iffuing within a few inches of its margin, gives it a fingular appearance. Comparing the temperature of tiefe with that of the hot foprings of Kamfcatka, of which Krachininnikow gives an account, the difference is very great, the latter raiing the mercury to $200^{\circ}$, which is within $12^{\circ}$ of boiling water. Thefe forings are very mueh reforted to, in fpite of a total want of accommodation for the fick. Their waters are ftrongeft in the hotteft months, which oscafions their being vifited in July and Auguft principally.

The fweet fprings are in the county of Botetourt, at the eaftern foot of the Allegany, about forty-two miles from the warm fprings.

They are ftill lefs known. Having been found to relreve cafes in which the others had been ineffectually tried; it is probable their compofition is different : they are different alfo in their temperature, being as cold as common water; which is not mentioned, however, as a proof of a diftinct impregnation. This is among the firft fources of James river.

On the Potomack river, in Berkeley county, above the North mountain, are medicinal fprings, much more frequented than thofe of Augufta : their powers, however, are lefs, the waters weakly mineralifed, and fcarcely warm. They are more vifited, becaufe fituated in a fertile, plentiful and populous country, provided with better accommodations, always fafe from the Indians, and neareft to the more populous States.

In Louifa county, on the head waters of the South Anna branch of York river, are fprings of fome medicinal virtue; they are, however, not much ufed. There is a weak chalybeate at Richmond, and many others in various parts of the country, which are of too little worth, or too little note to be enumerated after thofe before mentioned.

We are told of a fulphur fpring on Howard's creek of Greenbriar. . In the low grounds of the Great Kanhawa, feven miles above the mouth of Elk river, and fixty-feven above that of the Kanhawa itfelf, is a hole in the earth of the capacity of thirty or forty gallons, from which iffues conftantly a bituminous vapour, in fo ftrong a current, as to give to the fand about its orifice the mofion which it has in a boiling fpring. On prefenting a lighted candle or torch within eighteen inches of the hole, it flames up in a column of eighteen inches diameter, and four or five feet in height, which fometimes burns out in twenty minutes, and at other times has been known to continue three days, and then has been left burning. The flame is unfteady, of the denfity of that of burning fpirits, and fmells like burning pit coal. Water fometimes collects in the bafon, which is remarkably cold, and is kept in ebullition by the vapour iffuing through it; if the vapour be fired in that flate, the water foon becomes fo warm, that the hand cannot bear it, and evaporates wholly in a fhort time. This, with the circumjacent lands, is the property of Prefident Wamington and of General Lewis.

There a fimilar one on Sandy river, the flame of which is-a column of about twelve inches diameter and three feet high. Gene-

[^12]sal Clarke kindled the vapour, flaid about an hour, and left it burning.

The mention of uncommon fprings leads to that of Syphon founsains : there is one of thefe near the interfection of the Lord Fairfax's boundary with the North mountain, not far from Brock's gap, on the ftream of which is a grift mill, which grinds two bufhels of grain at every flood of the fpring. Another near the Cow Pafture river, a mile and a half below its conflunce with the Bull Pafture river, and fixteen or feventeen miles from the hot fprings, which intermits once in every twelve hours. One alfo near the mouth of the North Holfton.

After thefe may be mentioned, the Natural Well on the lands of a Mr. Leyis, in Frederick county; it is fomewhat larger than a common well; the water rifes in it as near the furface of the earth as in the neighbouring artificial wells, and is of a depth as yet unknown. It is faid, there is a current in it tending fenfibly downwards; if this be true, it probably feeds fome fountain, of which it is the natural refervoir, diftinguifhed from others, like that of Madifon's cave, by being acceffiblê'; it is ufed with a bucket and windiafs as an ordinary well.

## CAVERNS AND CURIOSITIES.

In the lime-itone country there are many caverns of very confifiderable extent. The moft noted is called Maddifon's cave, and is on the north fide of the Blue ridge, neâr the interfection of the Rockingham and Augufta line with the fouth fork of the fouthern river of Shenandaoh. It is in a hill of about two hundred feet perpendicular height, the afcent of which, ${ }^{\text {m }}$ on one fide, is fo fteep, that you may pitch a bifcuit from its fummit into the river which wafhes its bafe. The entrance of the cave is, in this fide, about two-thirds of the way up. It extends into the earth about three hundred feet, branching into fubordinate caverns, fometimes afcending a little, but more generally defcending, and at length terminates in two different? places, at bafons of water of unknown extent, and which appear to be nearly on a level with the water of the river. The water in thefe bafons is alyays cool, it is never turbid, nor does it rife or fall in times of flood or drought. It is probably one of the many refervoirs with which the interior parts of the earth' are fuppofed to abound, and which yield fupplies to the fountains of water, diftinguifhed
from others only by its being acceffible. The vault of this cave is of folid lime-ftone, from twenty to forty or fifty feet high, through which water is continually percolating. This, trickling down the fides of the cave, has incrufted them over in the form of elegant drapery; and dripping from the top of the vault, generates on that and on the bafe below, ftalactites of a conical form, fome of which have met and formed maffive columns.

Another of thefe caves is near the North mountain, in the county of Frederick. The entrance into this is on the top of an extenfive ridge. You defcend thirty or forty feet, as into a well, from whence the cave then extends; nearly horizontally, four hundred feet into the earth, preferving a breadth of from twenty to fifty feet, and a height of from five to twelve feet. Mr. Jefferfon obferves, that after entering this cave a few feet, the mercury, which in the open air was at $50^{\circ}$, rofe to $57^{\circ}$ of Fahienheit's thermometer,' anfwering to $11^{\circ}$ of Reaumur's, and it continued at that to the remoteft parts of the cave. The uniform temperature of the cellars of the obfervatory of Paris, which are "ninety feet deep, and of all fubterranean cavities of any depth, where no chymical agents may be fuppofed to produce a factitious heat, has been found to be $10^{\circ}$ of ${ }^{\prime}$ Reamur, equal to $54 \frac{\pi^{\circ}}{2}$ of Fabrenheit. The temperature of the cave above mentioned fo nearly correfponds with this, that the difference may berafcribed to a difference of inftruments.

At the Panther gap, in the ridge which divides the wraters of the Cow and Calf paftore, is what is called the Blowing Cave. It is in the fide of a hill, is of abouit an hundred feet diameter, and emits conftantly a current of air of fuch force, as to keep the weeds proftrate to the diftance of twenty yards before it. This current is frongeft in dry frofty weather, and weakeft in long periods of rain. Regular infications and expirations of air, by caverns and fiffures, have been probably enough accounted for, by fuppofigg thein com-* bined with intermitting fountains, as they muft of courfe inhale the air, while the refervoirs are emptying themfelves, and again emit it while they are filling. But a conflant iffue of air, only varying in its force as the weather is drier or damper, will require a new hypothefis. There is another blowing cave in the Cumberland mountain, about a mile from where it croffes the Carolina line. All we know of this is, that it is not conftant, and that a fountain of water iflues from it.

## 94.

 GENERAL DESCRIPTIONThe Natural Bridge is the moft fublime of nature's works. It is on the afcent of a hill, which feems to have been cloven through its length by fome great convulfion. The fiffure, juft at the bridge, is by fome admeafurements two hundred and feventy feet deep; by others only two hundred and five. It is about forty-five feet wide at the bottom, and ninety feet at the top; this of courfe determines the length of the bridge; and its height from the water. . Its breadth in the middle is aboutofixty feet, but more at the ends, ănd the thicknefs of the ${ }^{\text {n }}$ mafs at the fummit of the arch about forty feet, but more at the ends, and ninety feet at the top. A part of this thicknefs is conflituted by a coat of earth, which gives growth to many large trees. The refidue, with the hill on both fides, is folid rock of lime-ftone. The arch approaches the femiclliptical form; but the larger axis of the ellipfis, which would be the cord of the arch, is many times longer than the tranfverfe. Thuugh the fides of this briage are provided in fome parts with a parapet of fixed rocks, yet few men have refolution to walk to them and look over into the abyfs. You involuntarily fall on your hands and feet, creep to the parapet and peep over it. If the view from the top be painful and intolerable, that from below is delightful in an equal extreme. It is impoffible for the emotions, arifing from the fublime, to be felt beyond what they are here: fo beautiful an arch, fo elevated, fo light, and fpringing as it were up to Heaven, the rapture of the fpettator is really indefcribable! The fiffure continuing narrow, deep and ftraight, for a confiderable diftance above and below the bridge, opens a fhort but very pleafing view of the North mountain on one fide, and Blue ridge on the other, at the diftance each of them of about five miles. This bridge is in the county of Rockbridge, to which it has given name, añd affords a public and commodious paffage over a-valley, which cannot be croffed elfewhere for a confiderable diftance.* The ftream paffing under it is called Cedar creek. It is a water of James river, and fufficient in the drieft feafons to turn a grift mill, thougli its fountain is not more than two miles above. There is a natural bridge fimi-

[^13]lar to the above, over Stock creek, a branch of Pelefon river, in Waffington county.

## CIVIL DIVISIONS.

. his State is divided into eighty-two counties, and by another divifion is formed into parifhes, many of which are commenfurate with the counties: but fometimes a county comprehends more than one parih, and fometimes a parifh more than one county. This divifion had relation to the religion of the State, a minifter of the Anglican church, with a fixed falary, having been heretofore eftablifhed in each pariih. The names and fituations of thefe counties are as follow :

WEST OF THE BLUE RIDGE.

| Ohio, | Botetourt, | Frederick, <br> Monongalia, |
| :--- | :--- | :--- |
| Greenbriar, Shenandoah, <br> Waflington, Kanhawa, <br> Mongomery, Hamphire, <br> Wythe, Berkley, | Augufta, |  |
|  | Rockbridge. |  |

BETWEEN THE BLUE RIDGE AND THE TIDE WATERS.

| Loudoun, | Albemarle, | Prince,Edward, |
| :--- | :--- | :--- |
| Fauquier, | Amherft, | Cumberland, |
| Culpepper, | Buckingham, | Powhatan, |
| Sporfylvania, | Bedford, | Amelia, |
| Orange, | Henry, | Nottaway, |
| Louifa, | Pittfylvania, | Eunenburgh, |
| Goochland, | Halifax, | Mecklenburgh, |
| Flavania, | Charlotte, | Brunfwick. |

BETWEEN JAMES RIVER AND CAROLINA.

| Greenfville, | Surry, | Nanfemond, |
| :--- | :--- | :--- |
| Dinwiddie, | Suffex, | Norfolk, |
| Chefterfield, | Southampton, | Princefs Ann. |
| Prince George, | Ifle of Wight, |  |



THE FOLLOWING ARE NEW COUNTIES.

Campheil, $\quad$ Randolph, $\quad \because \quad$| Mendleton, |
| :--- |
| Franklin,' |
| Hardy, |

Ruffel.

## CHIEF TOWNS.

There are no townhips in this State, nor any towns of confequencé, owing, probably, to the interfection ofthe country by navigable rivers, which brings the trade to the doors of the inhabitants, and prevents the neceffity of their going in queft of it to a diffance. Williamfburgh, which, till the year 1780 , was the feat of government, never contained above eighteen hundred inhabitants, and Nors folk, the moft populous town they ever had in Virginia, contained but fix thoufand. The towns, or more properly villages or hamlets, are as follow:

On James river and its waters-Norfolk, Portfmouth, Hampton, Guffolk, Smithfield, Williamiburgh, Peterßurgh, Richmond, the feat Ygovernment, Manchefter, Charlottefville, New London.-On pahaiker and its waters, York, Newcaftle, Hanover.-On RapOn Potu Urbanna, Porit Royal, Frederickiburgh, Falmouth.Winchefterend its traters, Dumfries, Colchefter, Alexandria, There

There are places at which, like fome of the foregoing, the laws bave faid there flall be towns, but nature has faid there fhall not; and they remain unworthy of enumeration. Norfolk will probably become the emporium for all the trade of the Cherrapeak bay and its waters; and a canal of eight or ten miles, which will probably foon be completed, will bring to it all that of Albemarle found and its waters. Secondary to this place, are the towns at the head of the tide waters, to wit, Peterfburgh on Appamattox, Richmond on james river, Newcaftle on York river, Frederickfburgh on the Rappaifiannock, and Alexandria on the Potomack. From thefe the diftribution will be to fubordinate fituations of the country. Accidental circumftances, however, may controul the indications of nature, and in no inflances do they do it more frequently than in the rife and fall of towns.

To the foregoing-general account, we had the following more particular defcriptions :

## ALEXANDRIA.

Afexandria ftands on the fouth bank of Potomack river in Fairfax county; its fituation is elevated and pleafant ; the foil is clay. The original fettlers, anticipating its future growth and importance, laid out the ftreets upon the plan of Philadelphra. It contains about fix hundred houfes, many of which are handfomely built, and about fix thoufand inhabitants. This town, upon opening the navigation of Potomack river, and in confequence of its vicinity to the city of Wafhington, will probably be one of the moft thriving commercial places on the continent.

## MOUNT VERNON̈.

Mount Vernon; the celebrated feat of.Prefident Waflington, is pleafantly fituated on the Virginia bank of the Potomack, where it is nearly two miles wide, and is about two hundred and eighty miles from the fea, and one hundred and twenty-feven from Point Look-out, at the mouth of the river. It is nine miles below Alexandria, and four miles above the beautiful feat of thie late Col. Fairfax, called Bellevoir. The area of the mount is two hundred feet above the furface of the river, and, after furnifting a lawn of five atres in front, and about the fame in rear of the buildings, falls off: rather abruptly on thofe two quarters. On the north end it fubfides gradually into extenfive pafture grounds; while on the fouth it flopes
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more

## GENERAL DESCRIPTION

more fteeply in a chorter diftance, and terminates with the coathhoufe, ftables, vineyard, and nurferies. On either wing is a thick grove of different flowering foreft trees. . Parallel with them, on the land fide, are two facious gardens, into which one is led by two ferpentine gravel walks, planted with weeping willows and fhady fhrubs. The manfion houfe itfelf (though much embellifhed by, yet not perfectly fatisfactory to the chafte tafte of the prefent poffeffor) appears venerable and convenient. The fuperb banquetting room has been finimed fince he returned home from the army. A lofty portico, ninety-fix feet in length, fupported by eight pillars, has'a pleafing effect when viewed from the water; the whole affemblage of the green-houfe, fchool-houfe, offices and fervants halls, when feen from the land-fide, bears a refemblance to a rural village; efpecially as the lands on that fide are laid out fomewhat in the form of Englifh gardens, in meadows and grafs grounds, ornamented with liftie copfes, tircular clumps and fingle trees. A fimall park on the margin of the river, where the Englifh fallow-deer and the American wild deer are feen through the thickets, alternately with the veffels as they are failing along, add a romantic and picturefque appearance to the whole frenery. On the oppofite fide of a fmall creek to the øorthward, an extenfive plain, exhibiting corn fields and cattle grazing, affords in fummer a luxuriant landfcape; while the blended verdure of woodlands and cultivated declivities, on the Maryland fhore, variegates the profpect in a charming manner. Such are the philorophie thades to which the late commander in chief of the American armies retired from the tumultuous fcenes of a bufy world, and which he has fince left to dignify, by his unequalled abilities, the-moft important office in the gift of his fellow citizens.

## FREDERICRSBURGH.

Frederickfburgh, in the county of Spotiflvania, is fituated on the fouth fide of Rappahannock river, one hundred and ten miles from its mouth, and contains about two hundred houfes, principally on one freet, which rans nearly parallek with the river, and one thoufand five hundred inhabitants.

## RICHMOND.

Richmond, in the county of Henrico, is the prefent feat of government, and ftands on the north fide of fames river, juft at the foot of the falls; and contains between five and fix hundred houfes,
and from five to fix thoufand inhabitants. Part of the houfes are built upon the margin of the river, convenient for bufinefs; the reft are upon a hill which overlooks the lower part of the town, and comr mazas an extenfive profpect of the river and adjacent country. The new houfes are well built. A large ftate-houfe, or capitol, has lately been erected on the hill. The lower part of the town is divided. by a creek, over which is a convenient bridge. : A bridge between three and four hundred yards in length has lateíy been thrown acrofs James river, at the foot of the fall, by Colonel Mayo. 'That part from Manchefter to the inland is built on fifteen brats. From the ifland to the rocks was formerly a floating bridge of rafts, but Colonel Mayo has now built it of framed log pierśs, filled with fone. From the rocks to the landing at Richmond, the bridge is continued on framed piers filled with ftone. This bridge connects kichmond with Mancheffict; and as the paffengers pay toll, it prodices a congderable revenue to Colonel Mayo, who is the fole proprietcr.
The falls above the bridge are feven miles in length. A noble canal is nearly, if not -quite, completed on the north fide of the river, which is to terminate in a bafon of about two acres, in the town of Richmond. From this bafon to the wharfs in the river will be a land carriage of about a mile. This canal is cutting under the directiof of a company, who have calculated the expenfe at thirty thoufand pounds Virginia money; this they have divided into five hundred fha es of fixty poûnds each. The opening of this canal promifes the addition of much wealth to Riphmond.

## PETERSBURGTH,

Peterburgh, twenty-five miles fouthward of Richmond, ftands an the fouth fide of Appamattox river, and contains upwards of three hundred houfes in two divifions; one is upon a clay cold foil, and is very dirty, the other upon a plain of fand or loam. There is no regularity and very little elegance in Peterburgh, it is merely a place of bufinefs. The Free Mąons have a hall tolerably elegant, It is very unhealthy, being thut out from the accefs of the winds by high hills on every fide.* This confiniedifituation has fuch an effect upon the confitutions of the inhabitants, that they very nearly refemble thofe of hard drinkers; hence, in the opinion of phyficians

[^14]they require a confiderable quantity of ftimulating aliments and vinous drinks, to keep up a balance between the feveral functions of the body.

About two thonfand two hundred hogheads of tobacco are infpected here annually. Like Richmond, Wiliamiburgh, Alexandria, and Norfolk, it is a corporation; and Peterburgh city comprehends a part of three counties. The celebrated Indian queen, Pocahonta, from whom defcended the Randolph and Bowling families, formerly refided at this place. Peterfburgh and its fuburbs contain about three thoufand inhabitants.

## WILLIAMSBURGH.

Williamfurgh, fixty miles eaftward of Richmond, is fituated between two creeks; one falling into James river, the other into York river. The diftance of each landing place is about a mile from the town, which, with the difadvartage of not being able to bring up large veffis, and want of enterprife in the inhabitants, are the reafons why it never flourifhed : it confifts of about two hiundred houfes, going faft to decay, and has about fourteen hundred inhabitants; it is regularly laid out in parallel ftreets, with a fquare in the center, through which runs the principal ftreet, eaft and weft, about a mile in length, and more than an hundred feet wide. At the ends of this ftreet are two public buildings, the college and capitol: befides thefe, there is an epifcopal church, a prifon, a hofpital for lunatics, and the palace; all of them extremely indifferent. In the capitol is a large marble Itatue, the likenefs oi Narbone Berkley, Lord Botetourt, a man diftinguifhed for his love of piety, literature and good government, and formerly governor of Virginia: it was erected at the expenfe of the state fome time fince the year 1791. The capitol is little better han in ruins, and this elegant fatue is expofed to the rudenefs of negroes and boys, and is thamefully defaced. Every thing in Williamburgh appears dull, forfaken and melancholy; there is no trade; no amufement, but the infamous one of gaming; no induftry, and very little appearance of religion. The unprofperous ftate of the college, but principally the removal of the feat of government, have contributed much to the deciige of this city.

## TORK-TOWN.

York-town, thirteen miles eaftward from Williamburgh, and fourteen from Monday's point at the mouth of the river, is a place of
about an hundred houfes, fituated on the fouth fide of York river, and contains about feven hundred inhabitants. It has been rendered famous, by the capture of lord cornwallis ant his Army, on the igth of October, $178 \mathrm{I}_{2}=$ by the united forces of France and America.

## POPULATION.

In the year 1781 , a very inaccurate cenfus was taken. Several counties made no return; but fupplying by conjecture the deficiencies, the population of Virginia wasithen computed at five hundred and fixty-feven thoufand fix iundred and fourteen perfons; according to the cenfus of 1790 the numbers were as follow:

VIRGINIA.
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VIRGINIA.

| COUNTIES, sc. |  |  |  |  | 坒 | 를 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hanover | 16 | 1412 |  | 40 | 82 | 4754 |
| Hampflire | 1662 | 1955 | 326 | 13 | 54 | 7346 |
| Harriion | $4{ }^{8}$ | 579 | $94 \%$ |  |  | 2080 |
| Hardy | $1{ }^{1}$ | 225 | 3 T 22 | 411 | 369 | $733{ }^{6}$ |
| Halifa | 22 | 2320 | 4397 | 226 | 5565 | 14722 |
| Heary | 1523 | ${ }^{195} 3$ | 3277 | 165 | ${ }^{1551}$ | 8479 |
| Ifle of Wigh | 1203 | 156 |  |  | 3867 | 9028 |
| James City <br> King Will | 395 | 359 | ${ }^{765}$ | T ${ }^{1+6}$ | 2495 | $\begin{array}{r}4070 \\ 8128 \\ \hline 18\end{array}$ |
| King William King and Que | - ${ }^{12}$ | 332 1626 | [493 | 84 | 5151 5143 | 8128 |
| King George | 757 | ${ }_{7} \mathrm{~S}_{5}$ | 15 | S6 | 4푹 | 7366 |
| Lunenburg | Itio | $\mathrm{riS5}_{5}$ | 225 | co | 4332 | 8959 |
| Loudon | $3^{677}$ | 3992 | 7080 | 183 | 4030 | 8962 |
| Lanc | 535 | 542 | $1 \mathrm{IS3}_{2}$ | 143 | 3236 | 5638 |
| Louita | 95 | 1024 | 1899 | 14 | 457 | ${ }_{4}{ }_{4} 67$ |
| Miecklenburgh | 1857 | 2015 | $3^{69} 3$ | 416 | 6,62 | 14733 |
| Middlefex | 40 | $37{ }^{\circ}$ | 534 | 5 | 2558 |  |
| Monongalia . - ${ }^{\text {Montgomery, as ic }}$ | 1089, | 1345 | 2163 |  | 154 | 4768 |
| $\left.\begin{array}{l}\text { Montgomery, as ic } \\ \text { ftood previous to } \\ \text { the formation of } \\ \text { Wythe from it } \\ \text { and Botetourt }\end{array}\right\}$ | 2846 | 3744 |  |  | 828 | 13228 |
| Norfoik | 2650 | 1987 | 4291 | 251 | 5345 | 4524 |
| Norrhampto | 5 | 743 | 1501 | 464 | 3244 | 6889 |
| New Kent | 6 |  | 1199 | 148 | $37^{\circ}$ | 6239 |
| Northumberla | 1046 | 1137 | 2323 | 197 | 446 | $9{ }^{10} 9$ |
| Nanfemon | 1215 | 115 | 233 | 6. | $3^{81}$ | 9010 |
| Orage | 13 | 1426 | 2693 | 64 |  | 9921 |
| Ohio - - - | 1222 | 1377 | 2308 <br> 106 <br> 1 | 24 | 285 <br> 3965 | 5212 8100 |
| Prince Edward Prince William |  | 105 |  | 162 | 3986 | 8100 11615 |
| Prince George | 96 | ${ }_{\mathbf{S 2 2}}$ |  | 267 | 4519 | $8{ }^{173}$ |
| Powhatan. | 623 | 548 |  | 271 | 4325 | 6822 |
| Pendleton | 568 | 686 | 1128 | 6 | 73. | 2452 |
| Pittrylvania | 2 cos | 2447 | 4083 | 62 | 2979 | 11579 |
| Princefs An | 1169 | ${ }^{1151}$ | 2207 | 64 | $3^{202}$ | 7793 |
| Richmond Randolph | 704 221 | ${ }_{2} 67$ | 1517 | $\mathrm{S}_{3}$ | ${ }^{39} 8$ | 6985 |
| Rockingham | [ ${ }^{221}$ | 27 1652 | 32009 |  | ${ }_{77}{ }^{19}$ | 951 7449 |

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## GENERAL DESCRIPTION

VIRGINIA.

| COUNTIES, \&c. |  |  |  |  | 華 | + |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ruffel | 734 |  |  | 5 | 190 | 3338 |
| Rockbridge . | 1517 | 1552 | 2756 | 41 | 682 | 6548 |
| Spotfylvania | ${ }_{1}{ }^{1} 61$ | 1278 | 2532 | 148 | 5933 | 11252 |
| Staffo:d | 1341 | ${ }^{1} 355$ | 2769 |  | 4036 | 9588 |
| Scuthampton Surry | 1632 | 1546 | 3134. |  | 5993 | 12864 |
| Surry •• . Shannandoah | 732 | 651 | 1379. | 368 | 3097 | 6227 |
| Suffex . . | 2409 | 2779 | 4791: | 19 |  | 10510 |
| Warwick | 1215 | 1174 | 23 S2 | 391 | 5387 | 10554 |
| Wafhington |  | 158 | 333 | 33 | 990 | 1690 |
| Weftmorelan | 1287 | 1440 | 2440 |  | 450 | 5625 |
|  | SI5 |  | 1614 | $1{ }_{14}$ | 4425 | 7722 |
| Y | 530 | 461 | 1124 | $35^{8}$ | 2750 | 5233 |
| $110936116135121546{ }^{12866} 292627: 747610$ |  |  |  |  |  |  |

By comparing the two alccounts taken at the above different perieds, it appears, that the increare in ten years was two hundred and fifty-eight thoufand fix hundred and feventy-three, or about twenty-five thoufand eight hundred and fixty-feven per annum; allowing for the fame proportional increafe, the prefent number of inhabitants in this State cannot be lefs than nine hundred thoufand.

The increafe of flaves, during the laft fourteen years, has been
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general officers always exifting: thefe are appointed occafionally, when an invafion or infurrection happens, and their commifion deter: mines with the occafion. The governor is head of the military as well as of the civil power. The law requires every militia man to provide himfelf with the arms ufual in the regular fervice. But this injunction has alvays been indifferently complied with, and the arms they had have been fo frequently called for to arm the regulars, that in the lower parts of the country they are entirely difarmed. In the middle; country a fourth or fifth part of them may have fuch firelocks as they ${ }^{\text {c }}$ had provided to deftroy the noxious animals which infeft their farms; and on the weftern Gide of the Blue Ridge they are generally armed with rifles.

The interfection of Virginia, by fo many navigable rivers, renders it almoft incapable of defence: as the land will not fupport a great number of people, a force cannot foon be collected to repel a fudden invafion. If the militia bear the fame proportion to the number of inhabitants nowt, as in 1782, they amount to more than fixty-eight thoufand.

## RELIGION AND CHARACTER.

The firtt fettlers in this country were emigrants from England, of the Englifh church, juft at a point of time when it was flufhed with complete victory over the religious of all other perfuafions, Poffeffed, as they became, of the powers of making, adminiftering, and executing the laws, they fhewed equal intolerance in this country with their Prefbyterian brethren, who had enigrated to the northern government; the poor Quakers were flying from perfecution in England. They caft their eyes on thefe new countries as afylums of civil and religious freedom: but they found them free only for the reigning fect. Several acts of the Virginia affembly of $1659,1662_{2}$ and 1693, had made it penal in parents to refufe to have their chil: dren baptized, and prohibited the unlawful affembling of Quakers; had made it penal for any mafter of a veffel to bring a Quaker into the State, and had ordered thofe already here, and fuch as fhould come thereafter, to be imprifoned till they fhould abjure the country; had provided a milder punifhment for their firft and fecond return, but death for their third; had inhibited all perfons from fuffering their meetings in or near their houres, entertaining them individually, or difpofing of books which fupported their tenets. If no capital execution took place theres as did in New-England, it was not owing ta : YoL. II. $^{\text {In }}$
moderation of the church, or fpirit of the legiflature, as may be inferred from the law itfelf; but to hiftorical circumftances which have not been handed down to us. The Anglicans retained full poffeffion of the country about a century. Other opinions began then to creep in, and the great care of the government to fupport their own church, having begotten an equal degree of indolence in its clergy, two thirds of the people had become Diffenters at the commencement of the late revolution.- The laws, indeed, were ftill oppreffive on them, but the finit of the one party had fubfided into moderation, and the other had ififen to a degree of determination which commanded refpect.
The prefent fate of the laws on the fubject of religion is as follows: the Conivention of May ${ }_{177} 7$, in thêir declaration of rights, declared it to be a truth, and a natural right, that the exercife of religion flould be free; but when they proceeded to form on that declaration the ordinànce of government, inftead of taking up every prin-: c.ple declared in the Bill of Rights, and guarding it by legiflative fanction, they paffed over that which afferted their religious rights, leaving them as they found them. The fame Convention, however, when they met as a part of the General Affembly, in October, 1776, repealed all acts of Parliament which had rendered criminal the main. taining any opinion in matters of religion, the forbearing to repair to church, and the exercifing any mode of worthip; and fufpended the laws giving falaries to the clergy, which fufpenfion was made perpetual in October, 1779. Statutory oppreffions in religion being thus wiped away, the Virginians remained under thofe only impofed by the common law, or by their own act of Affembly, till 1785 , at which time all reftraints and civil incapacities on account of religion were done away. At the common law, herefy was a capital offence, punifhable by burning. Its definition was left to the ecclefiaftical judges before whom the conviction was, till the flatute of the ift Eliz. c. r. circumfrribed it, by declaring, that nothing fhould be deemed herefy, but what had been fo determined by authority of the canonical fcriptures, or by one of the four firft general councils, or by fome other council having for the grounds of their declaration the exprefs and plain words of the fcriptures. Herefy, thus circumfcribed, being an offence at the common law, their act of Affembly of Oetober, 17.77 , c. 17 . gives cognizance of it to the general court, by declaringe that "s the jurifdictionof that court fhall be generat in all matters at the common law." The execution is by the writ $D e$ bereetico combarenda. By their own act
of Affembly of ${ }_{7} 705$, c. 30 , if a perfon brought up in the Chriftian religion denied the being of a God, or the Trinity, or afferted there are more Gods than one, or denied the Chriftian religion to be true, or the Scriptures to be of divine authority, he is punifhable on the firft offence by incapacity to hold any office or employment ecclefiaf? tical, civil or military ; on the fecond, by difability to fue, to take any gift or legacy, to be guardian, executor, or adminiltratòr, "and by three years imprifoment without bail. A father's right to the cuftody of his own children being founded in law on his right of guardianfhip, this being taken away, they may of courfe be fevered from him, and put, by the authority of a court, into more orthodox hands. This is a fummary view of that religious Ravery, under which a people were for fome time willing to remain, who had lavifhed their lives and fortunes in the eftablifhment of their civil free: dom; the evil is now, however, done away, and by an act of Affembly paffed in 1785 , the Virginians were put in poffeffion of the complete enjoyment of religious liberty. The error will, ere long, be finally eradicated, that the operations of the mind, as well as the acts of the body, are fubject to the coercion of the Jaws. Rulers can have authority over fuch natural rights only, as have beenfubmitted to them. The rights of confcience were never fubmitted, for man could not lawfully fubmit them; he is anfwerable for them to God. The legitimate powers of government extend to fuch acts only as are injurious to others; but it does me no injury for my neighbour to fay there are twenty gods, or no god; it neither picks my pocket nor breaks my leg. If it be faid, his iteftimony;in a court of juftice cannot be relied on, reject it then, and be the figma on him, Conftraint may make him worfe, by making him a hypocrite, but it will never make him a better man. It may fix him obftinately in his errors, but will not cure them. Reafon and free inquiry are the only effectual agents againft error. Give a loofe to them, they will fupport the true religion, by bringing every falfe one to their tribunal, to the teft of their inveftigation. They are the natural enemies of error, and of error only. Had not the Roman government permitted free inquiry, Chrifianity could never have been in, troduced. Had not free inquiry been indulged, at the æra of reformation, the corruptions of Chriftianity could not have been purged away. If it be reftrained now, the prefent corruptions will be profected, and new ones encouraged. Was the government to prefcribe to us our medicine and diet, our bodies would be in fuch keeping as as our fouls are now. Thus in France the emetic was once forbidden
as a medicine, and the potatoe as an article of food. Government is juft as inffallible too, when it fixes fyftems in phyfics. Galileo was fent to the inquifition for affirming that the earth was a fphere: the government had declared it to be as flat as a trencher, and Gafileo was obliged to abjure his error. This error, however, at length prevailed, the earth became a globe, and Defcartes declared it was whirled round its axis by a vorrex. The government in which be lived was wife enough to fee that this was no queftion of civil jurifdicdiction, or we fhould all have been involved by authority in vortices. In fact, the vortices have been exploded, and the Newtonian principte of gravitation is now more firmly eftablifhed, on the bafis of reafon, than it would be were the government to ftép in, and to make it an article of neceflary faith. Reafon and experinsent have been indulged, and error has fled before them. It is error alone which needs the fupport of government; truth can ftand by iffelf. Bubject opinion to coercion, whom will you make your inquiftors? Fallible men ; men governed by bad paffions, by private à wiel as. public reafons. . And why fabject it to coercion? To produce uniformity. But is uniformity of opinion defirable ? No more than of face and fature. Introduce the bed of Procruftes then, and as there is danger that the large men may beat the fmall, make us all of a fize, by lopping the former and flretching the latter. Difference of opinion is, perhaps; advantageous in religion. The feveral fects perform the of fice of a cenfor morum over each other. But is uniformity attainable? Millions of innocent men, women and children, fince the introduction of Chriftianity, have been burnt, tortured, fined and imprifoned; yet we have not advanced one ftep toivards it. What has been the effect of coercion? To make one hàlf the world fools, and the other half bypocrites, for the purpofe of fupporting roguery and error all over the earth. Let us reflect that this globe is inhabited by a thoufand millions of people; that thefe profefs probablya thoufand different fyftems of religion; that ours is but one of that thoufand; that if there be but one right, and ours that one, we fhould wifh to fee the nine hundred and ninety-nine wandering fects gathered into the fold of truth. But againft fuch a majority we cannot effect this by force. Reafon and perfuafion are the only practicable inftruments. To make way for thefe, free inquiry muff be indulged; and how can we wifh others to indulge it while we refufe it ourfelyes? But every flate, fays an inquifitor; has eftablifhed fome religion. We reply, no two have eftablifhed the fame. Is this a proof of the infallibility of eftabliflments? Many of the States, particularly Pennfylvania and New-York, have long fubiffed without any eftablifhment at all,

The experiment was new and doubtful, when they made it; it has anfwered beyond conception; they flourifh infinitely. Religion is well fupported; of various kinds, indeed, but all fufficient to preferve peace and order: or if a fect arifes, whofe tenets would fubvert morals, good fenfe has fair play, and reafons and laughs it out of doors, without fuffering the State to be troubled with it. They do not hang fo many malefactors as in England; they are not more difturbed with religious diffenfions; on the contrary, their morality is pure and their harmony is unparalleled; this can be afcribed to nothing but their unbounded tolerance, becaufe there is no other circumfance in which they differ from every nation on earth, France excepted. They have made the happy difcovery, that the way to filence religious difputes, is to take no notice of them.

The prefent denominations of Chrifians in Virginia are Prefbyterians, who are the moft numerous, and inhabit the weftern parts of the State; Epifcopalians, who are the moft ancient fettlers, and occupy the eaftern and firft fettled parts of the State. Intermingled with thefe are great numbers of Baptifts and Methodifts.

Virginia prides itfelf in being "The Ancient Dominion." It has produced fome of the moft diftinguifhed and influential men that have been active in effecting the two late grand and important revolutions in America. Her political and military charaçer will rank among the firft in the page of hiftory : but it is to be obferved, that this character has been obtained for the Virginians by a few eminent men; who have taken the lead in all their public tranfactions, and who, in fhort, govern Virginia; for the great'body of the people do not concern themfelves with politics; fo that their-government, though nominally republican, is, in fact, oligarchical or ariftoocraṭical.

The Virginians who are rich, are in general fenfible, polite, and hofpitable, and of an independent fipirit. The poor are ignorant and abject, but all are of an inquifitive turn. A confiderable proportion of the people are much addicted to gaming, drinking, fwearing, horfe-racing, cock-fighting, and moft kinds of diffipation. There is a much greater difparity between the rich and the poor, in Virginia, than in any of the northern States. The native inhabitants are too generally unacquainted with bufinefs, owing to their pride, and falfe notions of greatnefs. Before the revolution they confidered it as beneath a gentleman to attend to mercantile concerns, and devoted their time principally to amufement. By thefe means the Scotch
people and other foreigners who came among them, became their merchants, and fuddenly grew rich.

There muft, doubtlefs, be an unhappy influence on the manners of the people produced by the exiftence of flavery among them. The whole commerce between mafter and flave is a perpetual exercife of the moft boifterous paffions, the moft unremitting defpotifm on the one part, and degrading fubmiffion on the other. The children fee this, and learn to imitate it ; for man is an imitative animal. This quality is the germ of all ecucation in him, from his cradle to his grave he is learning to do what he feesqothers do. If a parent could find no motive either in his philanthropy or his felf-love, for reftraining the intemperance of paffion towards his fiave, it fhould always be a fufficient one that his child is preient; but generally it is not fufficient. The parent ftorms, the child looks on, catches the lineaments of wrath, puts on the fame airs in the circle of fmaller flaves, gives a loafe to his worft of paffions, and thus nurfed, educated, and daily exercifed in tyranny, cannot but be ftamped by it with odious peculiarities. The man mult be a prodigy who can retain his manners and morals undepraved by fuch circumftances. And with what execration fhould the fatefman be loaded, who, permitting one half the citizens thus to trample on the rights of the other, transforms thofe into defpots, and thefe into enemies; deftroys the morals of the one part, and the amor patria of the other. For if a flave can have a country in this world, it muft be any other in preference to that in which he is born to live and labour for another; in which he muft lock up the faculties of his nature, contribute as far as depends on his individual endeavours to the evanihment of the human race, or entail his own miferable condition on the endlefs generations proceeding from him, With the morals of the people, their induitry adfo is deftroyed. For in a warm climate, no man will labour for himfelf who can make another labour for him. This is fo true, that of the proprietors of flaves a very fmall proportion, indeed, are ever feen to labour. And can the liberties of a nation be thought fecure when they have removed their only firm bafis, a conviction in the minds of the people that thefe liberties are of the gift of God; that they are not to be violated but with his wrath?

It is impoffible to be temperate and to purfue this fubject through the various confiderations of policy, of morals, of hifory, natiral and civil. We muft be contented to hope they will ultimately force their way into every one's mind; a change in this State has been per-
epptible ever fince the eftabiffiment of the prefent gorernment. The finitit of the mafter has abated, and that of the flave arifen from the duft, his conclition is now mollified, and the way at.length prepared by the federal government for a total emancipation, and this with the confent of the maiters, and not by their extirpation. Before the general government of America undertook the noble work of cutting up flavery by the roots, by laying the foundation of a total emancipation, the State of Virginia had as a body politics made fome advances; and fome private gentlemen had likewife exerted themfelves in a very confiderable degree, in the caufe of the cppreffed Africans. A Mr. Robert Carter; of Nomina, in this State, in the year 1790 , emancipated no lefs a number than four hundred and forty-two flaves. This is a facrifice on the altar of humanity of perhaps an hundred thoufand dollars. Vote him a triumph, crown him with laurels, and let the millions liften while he fings-
${ }^{\text {s }}$ I would not have a flave to till my ground,

- To carry me, to fan me while I fleep, And tremble when I wake, for all the wealth That finews bought and fold have ever earn'd. No: dear as freedom is, and in my heart's Juft eftimation priz'd above all price, I had much rather be myself the flave, And wear the bonds, than faften them on нm."'


## TRADE AND MANUFACTURES.

Before the war, the inhabitants of this State paid but little attention to the manufacture of their own cloathing. It has been thought they ufed to import as much as feven-eights of their cloathing; and that they now manufacture three-quarters of it. We have before mentioned that confiderable quantities of iron are manufactured is this State. To thefe we may add the manufacture of lead; befides which they have few others of confequence. The people are much attached to agriculture, and prefer foreign manufactures.

Before the war this State exported, communibus annis, according to the beft information that could be obtained, as follows:

[^15]Iİ GENERAL DESCRIPTION

| Articles. | Quantity. | Atn. in Doliars. |
| :---: | :---: | :---: |
| Tobacco | $55,000 \mathrm{hhds}$ of 100 lb | 1,6,0,000 |
| Wheat | 800,000 bufhels | 666,666 ${ }^{\frac{2}{3}}$ |
| Indian corn | 600,000 bufhels | 200,000 |
| Shipping | - - | 100,000 |
| $\left.\begin{array}{l}\text { Mafts, planks, fkantling, fhin- } \\ \text { gles, and ftaves . . . }\end{array}\right\}$ | - - | 66,666 $\frac{2}{3}$ |
| Tar, pitch, and turpentine | 30,000 barrels | 40,000 |
| $\left.\begin{array}{l}\text { Peltry, viz. kins of deer, bea- } \\ \text { vers, otters, mulk rats, ra- } \\ \text { coons, foxes, \&c. }\end{array}\right\}$ | 180 hhds . of 6oolb | 42,000 |
| Pork . . . . . . . | 4,000 barrels | 40,000 |
| Flax-feed, hemp, and cotton | - - | 8,000 |
| Pit-coal and pig iron - | - - | 6,666 $\frac{2}{3}$ |
| Peas | 5,000 bufhels | 3,333 ${ }^{\frac{1}{3}}$ |
| Beef - - - . - | 1,000 barrels | $3,333 \frac{1}{3}$ |
| Sturgeon, white fhad, herring | - | $3,333 \frac{\sqrt{3}}{3}$ |
| Brandy, from peaches and apples, and whikey | - | 1,666 $\frac{2}{3}$ |
| Horfes . . . . . . | - - | 1,666 $\frac{2}{3}$ |
|  |  | 2, $833,333 \frac{1}{3} *$ |

The amount of exports from this State in the year fucceeding October 1,1790 , confifting chiefly of articles mentioned in the foregoing table, was three million one hundred and thirty-one thoufand two hundred and twenty-feven dollars: About forty thoufand hogfheads of tobacco only were exported this year.
In the year i 758 , this State exported feventy thoufand hogheads of tobarco, which was the greateft quantity ever produced in this country in one year. But its culture has fait declined fince the commencement of the war, and that of wheat taken its place. The price which it commands at market will not enable the planter to cultivate it. Were the fupply ftill to depend on Virginia and Maryland alone, as its culture becomes more difficult, this price would rife, fo as to enable the planter to furmount thofe difficulties and to live. But the weftern condtry on the Miffiffippi, and the midlands of Georgia, having frelh and fertile lands in abundance, and a hotter fun, are able to underfell thefe two strtes, and will oblige them in time to abandon the raifing of tobacco áltogethe=. And a happy obligation for them it will be. It is a culture productive of infinite wretchednefs.

[^16]Thofe

Thofe employed in it are in a continued State of exertion beyond the powers of nature to fupport. Little food of any kind is raifed by them; fo that the men and animals on thefe farms are badly fed, and the earth is rapidly impoverifhed. The cultivation of wheat is the reverfe in every circumftance. Befides cloathing the earth with herbage, and preferving its fertility, it feeds the labourers plentifully, requires from them only a moderate toil, except in the featon of harveft, raifes great numbers of animals for food and fervice, and diffures plenty and happinefs among the whole. It is eafier to raife an hundred bufhels of wheat than a thoufand weight of tobacco, and it is worth more when produced.

It is not eafy to fay what are the articles either of neesfirty, comfort, or luxury, which cannot be raifed here, as every thing hardier than the olize, and as hardy as the $f g$, may be raifed in the open air. Sugar, coffee, and tea, indeed, are not between thefe limits; and habit having piaced them among the neceffaries of life with the wealthy; as longes thefe habits. remain, they muft go for them to thofe ountries whichare able to furnih them.

## COLLEGES, ACADEMIES, LITERATURE, \&c.

The college of William and Mary was founded in the time of King William and Queen Mary, who granted to it twenty thoufand acres of land, and a penny a pound duty on certain tobaccoés exported from Virginia and Mary!and, which had been levied by the fatute of 25 Car. II. The Affembly alfo gave it, by temporary laws, a duty on liquors imported, and fikins and furs exported. From the fe refources it received upwards of three thoufand pounds. The buildings are of brick, fufficient for an indiferent accommodation of perhaps one hundred fudents. 'By its charter it was to be under the government of twenty vifitors, who were to be its legiflators, and to have a prefident and fix profeffors, who were incorporated: it was allowed a reprefentative in the General Affembly. Under this charter, a profefforflip of the Greei and Latin languages, a profeffor of mathematics, one of moral philofophy, and two of divinity, were eftablifhed. To thefe were annexed, for a fixth profefforfhip, a confderable donation by a Mr. Boyle of England, for the inffruction of the Incians, and their converfion to Chriftianity: this was called the profefforlhip of Brafferton, from an eftate of that hame in England, purchafed with the monies given. The admiffion of the learners of Latin and
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Q
Greek

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 GENERAL DESCRIPTIONGreek filled the college with children : this rendering it difagreea. ble to the young gentlemen already prepared for entering on the fciences, they defifted from reforting to it, and thus the fchools for mathematics and moral philofophy, which might have been of fome fervice, became of very little ufe: The revenues too were exhaufted in accommodating thofe who came only to acquire the rudiments of fcience. After the prefent refolution, the vifitors having no power to change thofe circumftances in the conftitution of the college which were fixed by the charter, and being therefore confined in the number of profefformips, undertook to change the objects of the profefforfhips. They excluded the two fchools for divivinity, and that for the Greek and Latin languages, and fubftituted others; io that at prefent they ftand thus-a profefforfhip for law and police; anatomy and medicine ; natural philofophy and mathematics; moral philofophy, the law of nature and nations, the fine arts; modern languages; for the Brafferton.

Meafures have been taken to increafe the number of profefforlhips, as well for the purpofe of fubdividing thofe already inftituted, as of adding others for other branches of fcience. To the profefformips ufuaily eftablifhed in the univerfities of Europe, it would feem proper to add one for the ancient languages and literature of the north; on account of their connection with our own languages, laws, cuftoms, and hiftory. The purpofes of the Brafferton inftitution would be better anfwered by maintaining a perpetual miftion among the Indian tribes; the object of which, befides inftructing them in the principles of Chriftianity, as the founder requires, fhould be to collect their traditions, laws, cuftoms, langinages, and other circumftances which might lead to a difcovery of their relation to one another, or deffent from other nations. When thefe objects are accomplifhed with one tribe, the miffionary might pafs on to another.

The college edifice is a huge, mifhapen pile; "which but that it has a root, would be taken for a brick kiln." In 1787 , there were about thirty young gentlemen members of this college, a large proportion of which were law ftudents. The academy in Prince Edward county has been erected into a college by the name of Hampden Sydney college. It has been a flourilhing feminary, but is now faid to be on the decline.

There are feveral academies in Virginia; one at Alexandria, one at Norfolk, and others, in other places.

Since the declaration of independence, the laws of Virginia have been revifed by a committee appointed for the purpofe, who have reported their work to the Affembly; one object of this revifal was to diffufe knowledge more generally through the mats of the people. The bill for this purpofe "propofes to lay off every county into fmall diffricts of five or fix miles fquare, called hundreds, and in each of them to eftablifh a fchool for the teaching of reading, writing, and arithmetic. The tutor to be fupported by the hundred, and all perions in it. entitled to rend their children three years gratis, and as much longer as they pleafe, paying for it. Thefe fchools to be under a vifitor, who is annually to chufe the boy of the beft genius in the fchool, of thofe whofe parents are too poor to give them farther education, and to fend him forward to one of the grammar fchools; of which twenty are propofed to be erected in different parts of the country, for teaching Greek, Latin, geography, and the higher branches of numeriral arithmetic. Of the boys thus fent in any one year, trial is to be made at the grammar fchools, for one or two years, and the beft genius of the whole felected and continued fix years, and the refidue difiniffed; by this means twenty of the beft geniuffes will be taken from the mais annually, and inftructed, at the public expenfe, fo far as the grammar fchools go. At the end of fix years inftruction, one half are to be cifcontinued, from among whom the grammar fchools will probabiy be fupplied with future mafters, and the other half, who are to be chofen for the fuperiority of their parts and difpofition, are to be fent and continued three years in the frudy of fech fiences as they fhall chufe, at William and Mary college, the plan of which is propofed to be enlarged, as has been explained, and extended to all the ufeful fciences. The ultimate refult of the whole fcheme of education would be the teaching all the children of the State reading, writing, and common arithmetic; turning out ten annually of fuperior genius, well taught in Greek, Latin, geography, and the higher branches of arithmetic ; turning out ten others annually, of fill fuperior parts, who, to thofe branches of learning, flall have added fuch of the fciences as their genius fhall have led them to ; the furnifhing to the wealthier part of the people convenient fchools, at which their children may be educated, at their own expenfe. The general objects of this law are to provide an education adapted to the years, to the capacity, and the condition of every one, and directed to their freedom and happinefs. Specific details were not proper for the law : thefe muft be the bufinefs of the vifitors entrufted with its

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## GENERAL DESCRIPTION

execution. The firf ftage of this education being the fchools of the hundreds, wherein the great mais of the pecple will receive their inftruction, the principal oundations of fuase order wili be laid bere. The firf elements of morality may be infilled into titeir minds; luch as, when farther deveioped as their judgmeats advance in inneng:i, may teach them how to promote their own greateft happioris, yy fhewing them that it does not depend on the condition of life in which nature has placed them, but is always the reiuit of a good confience; good health, occupation, and freeciom in all juft purfuits. Thofe whom either the wealth of their parents, or the adoption of the State, flall deftine to higher degrees of learning, will go on to the grammar fihools, which conftitute the next ftage, there o be infiructed in the languages. As foon as they are of a iuficient age, it is fuppofed they wiil be fent on from the grammar fchools to the univerity, which conftitutes the hird and laft ftage, there to ftudy thofe fiences wnick may be adapted to their views. By that part of the pian which prefribes the felection of the youth of genius from among the ciafies of the poor, the State will avail itfelf of thofe talents which nature has fown as liberally among the poor as the rich, but whig perifh witiout ufe, if not fought for and cuitivated. But of all the views of this law none is more important, none more legitimate; than that of rendering the people the fafe, as thejo are the ultimate, guarcians of their own liberty: for this purpole, the reading in the firt ftage, where they will receive their own education, is propofed, to be chreiz hiiftorical. Hiftory, by apprifing them of the paft, will enable them to judge of the future; it will avail them of the experience of other times and other nations; it will qualify them as jurges of the actions and defigns of men; it will enable them to know ambition under every difguife it may affume; and knowing it, to defeat its views. In every government on earth there is fome trait of human weaknefs, fome germ of corruption and degeneracy, which cunning will difcover, and wickednefs infenfibly open, cultivate and improve. Every government degenerates when trufted to the ruiers of the poople alone: the people themfelves therefore are its only fafe depofitories; and to render even them fafe, their minds maft be insproved to a certain degree : this, indeed, is not all that is neceffary, though it be effentially neceffary. The influence over government muft be fhared among all thè people. If every individual woich compotes their mafs participates of the ultinate authority, the government will be fafe; becaule the corrupting the whole mafs will exceed any
private refources of wealh ; and pubiic ones camot be provided but by levies on the people: in this caie every man would have to pay his own price. The goverament of Great-Rritain has been corrupted, becaufe but one man in thirty nas a right to vote for members of Parilament. The feilers of the government therefore get twenty-nine parts out ot thirty of their price ciear.

The excellent meafures for ehe difteficn ufeful knowledge, which the :orementioned bill propotes, have not yet been carried into effect. And it will be happy if the great inequality in the circumftances of the citizens; the pride, the indeyeadence, and the indolence of one clafs, and the poverty and depreffion of the other, do not prove infuperabie difficuities in the way of their univerfal operation.

## CONSTITUTION.

The Conftution, which was the firf that was-formed in the whole United States, is as follows:

We,-the delegates and repretentaives of the good peopie of Virginia, do declare the future form of sovermment of irginia to be as followeth :

The legiflative, execurire and judiciary departments thall be feparate and difinct, fo that nether exercife the powers propenly belonging to the other; nor fhail any perfon exercite the powers of more than one of them at the fame time, except that the juftices of the county courts thall be eligible to either Houte of ìfembly.

The legiflative fhall be formed of two dininit branches, who, to . gether, fhall be a complete legillature. They frail meet once, or oftener, every year, and fhall be called, The Genezal Assembly of Virginia. One of theíe hail be called, Tue House of Delegates, and confilt of two reprefentatives, to bechofen for each county, and for the diffrict of Weft-Augeqta, anmaily, of fuch -men as actually refide in and are frecholders of the fame, or duly qualified according to law; and alfo of one delegate or reprefentative to be chofen annually for the cisy of Wilitamfurgh, and one for the borough of Norfolk, and a reprefentative for each of fuch other cities and boroughs as may bereafer be ailiowed particular reprefentation by the legiflature; but when any city or borough fhall fo decreafe, as that the number of perfors having right of fuffrage therein fhall have been for the fpace of feven years fucceffively lefs

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 GENERAL DESCRIPTIONthan half the number of voters in fome one county in Virginia, fuck city or borough thenceforward hall ceafe to fend a delegate or reprefentative to the Affembly.

The other fhall be called, $T_{\text {he }}$ Senate, and confift of iwentyfour members, of whom thirteen thall conftitute a Houfe to proceed on bufinets, for whofe election the different counties flall be divided into twenty-tour diftricts, and each county of the refpective diftrict, at the time of the election of its delegates, flall vote for ane fenator, who is actually a refident and freeholder within the diftrict, or duly qualified according to law, and is upwards of twentyfive years of age; and the fheriffs of each county, within five days. at farthef after the laft county election in the diftrict, faall meet at fome convenient place, and from the poll fo taken in their refpective counties, return as a fenator the man who thall have the greateft number of votes in the whole diffrict. To keep up this Affembly by rotation, the diftricts fhall be equaliy divided into four clates, and numbered by lot. At the end of one year after the general clection, the fix members elected by the firft divifion-fall be difplaced, and the vacancies thereby occafioned fupplied from fuch clafs or divifion by new election in the manner aforefaid. This rotation fhall be applied to each divifion according to its number, and continered in due order annually.

The right of fuffrage in the election of members for botif Houfes thall remain as exercifed at prefent, and each fiouie chall chufe its own fpeaker, appoint it own officers, fettle its own rules of proceeding, and direct writs of election for the fupplying intermediate wacancies.

All haws fantif originate in the Houfe of Delegates, to be approved of or rejected by the Senate, or to beamended with confent of the Houre of Delegates, except money bills, which in no inftance fhall be altered by the Senate, but wholly approved of rejected.

A Governor, or chief magiffrate, fhall be chofen annually, by joint ballot of both Loufes, to be taken in each Houfe repectively, depofited in the conierence-room, the boxes examined jointly by a committee of each Houfe, and the numbers feverally reported to them, that the appointments may be entered (which fhall be the mode of taking the joint ballot of both Houfes in all cafes) who flall not continue in that office longer than three years fucceffively, nor be eligible until the expiration of four years after he fhall have been out of that office. An adequate, but moderate falary fhall be
 the adrice of a council of ftate, exercife the executive powers of government, according to the laws of this Commonwealth; and fhall not, under ariy pretence, exercife any power or prerogative by virtue of any lax, flatute or cuftom of England; but he fhall, with the advice of the council of ftate, have the power of granting reprieves or pardons, except where the profecution thall have been carried on by the Houfe of Delegates, or the law hall otherwife particularly direct; in which cafes no reprieve or pardon thall be granted, but by refolve of the Houfe of Delegates.

Either Houfe of the General Affembly may adjourn themfelves refpectively. The governor fhall not prorogue or adjourn the AfSembly during their fitting, nor diffolve them at any time; but he thall, if neceffary, either by advice of the Council of State, or on application of a majority of the Houfe of Delegates, call them before the time to which they fhall fand prorogued or adjourned.

A Privy Councit, or Council of State, confifting of eight members, fhall be chofen by joint ballot of both Houfes of Affembly, either from their'own members or the people at large, to affift in the -adminiftration of government. They fhall annually chufe, out of their own members, a prefident, who, in cafe of death, inability or absence of the governor from the government, thall act as lieutenantgovernor. Four members thall be fufficient to act, and their advice and proccedings fhall be entered on record, and figned by the members prefent (to any part whereof any member may enter his diffent) to be laid before the General Affembly, when called for by them. This council may appoint their own clerk, who flall have a falary fetted by law, and take an oath of fecrecy in fuch matters as he fill be diretted by the board to conceal. A fum of money appropriated to that purpofe fhall be divided annually among the members, in proportion to their attendance; and they fhall be incapable, during their continuance in office, of fitting in either Houfe of Affembly. Two members fhall be removed, by joint ballot of both Houfes of Affembly, at the end of every three years, and be-ineligible for the three next years. Thefe vacancies, as well as thofe occafioned by death or incapacity, fhall be fupplied by new elections in the fame manner.

The delegates for Virginia to the Continental Congrefs fhall be chofen annually, or fuperieded in the mean time by joint ballot of both Houfes of Affembly.
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The prefent militia officers fhall be continued, and vacancies fuph plied, by appointment of the governor, with the advice of the privy council, on recommendations from the refpective county courts; but the governor and council thall have a power of furpending any officer, and ordering a court-martial on complaint of mifbehaviour or inability; or to fupply vacancies of officers happening when in actual forvice.
The governor may embody the militia, with the alvice of the privy council; and, when embodied, flall alone have the direction of the militia under the laws of the country.
The two Houfes of Affembly fhall, by joint ballot, appoint judges of the Supreme Court of Appeals, and General Court, judges in Chancery, judges of Admiraity, fecretary and the attorney-general, to be commiffioned by the governor, and continue in office during good behaviour. In cafe of death, incapacity or refignation, the governor, with the advice of the privy council, fhall appoint perfons to fucceed in office, to be-approved or difplaced by both Houfes. Thefe officers flall have fixed and adequate falaries, and, together with all others hoiding lucrative offices, and all minifters of the goipel, of every denomination, be incapable of being elected members of either Houfe of Affembly, or the privy council.
The governor, with the advice of the privy council, fhall appoint juftices of the peace for the counties; and, in cafe of vacancies, or a neceffity of increafing theinumber hereafter, fuch appointments to be made upon the recommendation of the refpective county courts. The prefent acting fecretary in Virginia, and clerks of all the county courts, fhall continue in office. In cafe of vacancies, either by death, incapacity or refiofation, a fecretary fhall be appointed as before directed, and the clerks by the refpective courts. The prefent and future clerkseflajil hold their offices during good behaviour, t to be judged of and determined in the General Court. The fheriffs and coroners fhall be nominated by the refpective courts, approved by the governor, with the advice of the privy council, and commiffioned by the governor. The juffices fhall appoint conftables; and all fees of the aforefaid officers be regulated by law.
The governor, when he is out of office, and others offending againft the State; either by mal-adminiftration, corruption or other means, by which the fafety of the State may be endangered, fhall be inpeachable by the Houfe of Delegates; fuch impeachment to be profecuted by the attorney-generai, or fuch other perfon or per-
tons as the Houre may appoint; in the General Court, a according to the laws of the land. If found guilty, he or they fhall be either for ever difabled to hold any office under government, or be removed from fuch office pro tempore, or fubjected to fuch pains or penalties as the law fhall direct.

If all, or any of the judges of the General Court finould, on good grounds to be judged of by the Houfe of Delegates, be accufed of any of the crimes or offences above mentioned; fuch Houfe of Delegates may, in like manner, impeach the judge or judges fo accufed, to be profecuted in the Court of Appeals; and he or they, if found guilty, fhall be punified in the fame manier as prefcribed in the preceding claufe.

Commiffions and grants thall run, In the name of the Commons wealth of Virginia, and bear teft by the governor, with the feal of the Commonwealth annexed. Writs finall run in the fame manner; and bear teft by ihe clerks of the feveral courts. Indictménts fhall conclude, Againft the peace and dignity of the Common:wealth.

A treafurei fliall be appointed annually, by joint ballot of both Houfes.

Ail efcheats, penalties and forfeitures, herëtofore going to the King, thall go the Commonwealth, fave only fuch as the legiflature may abolifh, or otherwife provide for.

The territories contained within the charters erecting the colonies of Maryland, Pennfylvaniia, North and South Carolina, are hereby ceded, releafed, and for ever confirmed to the people of thefe coloBies refpectively, with all the rights of property, jurifdiction and government, and all other rights whatfoever, which might at any time heretofore have been claimed by Virginia, except the free navigation and ufe of the-rivers Potomack and Pökomoke, with the property of the Virginia fhores and frands bordering on either of the faid rivers, and all improvements which have been or thall be made thereoñ. The weftern and northern extent of Virginia fhall; in all other refpects, ftand as fixed by the charter of King James the Firft, in the year one thoufand fix hundred and nine, and by the public treaty of peace between the Courts of Britain and France; in the year one thoufand feven hundred and fixty-three; unlefs, by act of this legiflature, one or more governments be eftablifhed weftward of the Allegany mountains. And no purchafes of lands fhall be made of the Indian natives but on behalf of the public, by authority of the General Affembly.

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## L A W S.

The following are worthy of notice, as variations from the Englifiti law.

Debtors unable to pay their debts, and making faithful delivery of their whole effects, are releafed from their confinement, and their perfons for ever difcharged from reftraint for fuch previous debts; but any property they may afterwards acquire will be fubject to their creditors. The poor, unable to fupport themfelves, are maintained by an affeffment on the titheable perfons in their parifh. A foreigner of any nation, not in open war, becomes naturalifed by moving to the State to refide, and taking an oath of fidelity, and thereby acquires cvery right of a native citizen. Slaves pafs by defcent and dower as lands do. Slaves, as well as lands, were entailable during the monarchy; but, by an act of the firft repubJican Affembly, all donees in tail, prefent and future, were vefted with the abfolute dominion of the entailed fubject. Gaming debt are made void, and monies actually paid to difcharge fuch debts, if they exceed forty fhillings, may be recovered by the payer within three months, or by any other perfon afterwards. Tobacco, flour, beef, pork, tar, pitch and turpentine, muft be infpected by perfons publicly appointed before they can be exported.

In 1785 , the Affembly enacted, that no man hould be compelled to fupport any religious worfhip, place or miniter whatfoever, nor be enforced, reftrained, molefted or burdened in his body or goods, nor otherwife fuffer on àcount of his religious opinions or belief; but that all men fhould be free to profefs; and by argument to maintain, their opinion in matters of religion; and that the fame fhould in no wife diminin, enlarge or affect their civil capacities.

In October, 1786, an act was paffed by the Affembly, prohibiting the importation of flaves into the Commonwealth, upon penalty of the forfeiture of the fum of a thoufand pounds for every flave. And every flave imported contrary to the true intent and meaning of this act, becomes free.

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$$ in the State of Virginia, ceded to William Trent and twenty-two others, by the Six Nations, and the Shawanefe, Delaware and Huron tribes, as a compenfation for the loffes they had fuftained by the depredations of the latter, in the year 1763 . This ceffion was made in a congrefs of the reprefentatives of the Six Nations, at Fort Stanmix, by an indenture, figned the 3 d of November, 1768 , witherfing, "That for and in confideration of eighty-five thoufand nine hundred and fixteen pounds, ten fillings and eight pence, York currency, the fame being the amount of goods feized and taken by the fid Indians from the faid Trent, \&cc. they did grant, bargain, fell, \&c. to his Majefty, his heirs and fucceffors, for the only use of the faid William Trent, \&c. all that tract or parcel of land, Beginning at the foutherly fide of the Little Kanhawa creek, where it empties itfelf into the river Ohio; and running thence fouth-eaft to the Laurel hill; thence along the Laurel hill until it ftrikes the river Monongahela; thence down the stream of the fid river, according to the feveral courfes thereof, to the fouthern boundary line of the province of Pennfylvania; thence westwardly along the courfe of the faid province boundary line as far as the fame fall extend; thence by the fame courfe to the river Ohio, and then down the river Ohio to the place of beginning; inclufively." This indenture was figned by fix Indian chiefs, in prefence of Sir William Johnfon, Governon Franklin, of New Jerfey, and the commiffioners from Viregina, Pennfylvania, \&c. making twelve in the whole.

Since the Indians had an undifputed title to the above limited territory, either from pre-occupancy or conquieft, and their right was expressly acknowledged by the above deed of ceffion to the crown, it is very evident that Mr. Trent, in his own right, and as attorney for the traders, has a good, lawful and fufficient title to the land granted by the raid deed of conveyance.

## I 24 GENERAL DESCRIRTION, \&

This matter was laid before Congrefs in the year $1_{j} 8_{2}$, and a committee appointed to confider it, who, in May, reported as fol lows: "On the whole, your committee are of opinion that the purchafes of Colonel Croghan and the Indian company, were made bona fide for a valuable confideration, according to the then urage and cuftoms of purchafing Indian lands from the Indians, with the knowledge, confent and approbation of the Crown of Great-Britain, the then government of New-York and Virginia, and therefore do recommend that it be
"Refolved, That if the faid lands are finally ceded or adjudged to the United States in point of jurifdiction, that Congrefs will confirm to fuch of the faid purchafers who are, and fhall be citizens of the United States, or either of them, their refpective fhares and proportions of faid lands, making a reafonable deduction for the value of the quit rents referved by the Crown of England."?

Notwithftanding this report of the committee, the queftion could never be brought to a decifion before Congrefs. The Federal Confitution has, however, made provifion for the determination of this bufinefs, before the Supreme Federal Court. But previous to an appeal to this Court, the proprietors thought proper, by their agent, Colonel Morgan, who is alfo a proprietor, to prefent a memorial to the legiflature of Virginia, fetting forth their claims, and praying dat the bufinefs might be equitably fettled. This memorial was prefented in November, 1790; and thus, we believe, the Indiana bufnefs refts for the prefent.

## SITUATION, EXTENT, AND BOUNDARIES.

THIS State is fituated between $36^{\circ} 30^{\circ}$ and $39^{\circ} 30^{\prime}$ north latitude, and $8^{\circ}$ and $15^{\circ}$ weft longitude from Philadelphia; its length is about two hundred and fifty miles, and its breadth two hundred. It is bounded on the north and north-weft by Great Sandy creek and the Ohio river; on the weft by Cumberland river; on the fouth by the lands laid off from North-Carolina, called the Tenneffee government; and on the ealt by Sandy river, and a line drawn due fouth from its fource, till it ftrikes the northern boundary line of NorthCarolina.

## CLIMATE.

This country is more temperate and healthy than almoft any of the other fettled parts of America. In fummer it is without the fandy heats which Virginia and Carolina experience, and receives a fine air from its rivers. ${ }^{\circ}$. In winter, which at moft only latts three months, commonly but two, and is but feldom fevere, the people are fafe in bad houfes; and the beafts have a good fupply without fodder. The winter begins about Chriftmas, and ends aiout the firft of March, at fartheft does not exceed the middle of that month. Snow feldom falls deep or lies long. The weft winds often bring ftorms, and the eaft winds clear the fky; but there is no fteady rule of weather in that refpect, as in the northern States. The weft winds are fometimes cold and nitrous. The Ohio running in that direction, and there being mountains on that quarter, the wefterly winds, by fweeping along their tops, in the cold regions of the air, and over a long tract of frozen water, collect cold in their courfe, and convey it over the Kentucky country ; but the weather is not fo intenfely fevere as thefe winds bring with them in Pennfylvania. The air and
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feafons depend very much on the winds, as to heat and cold, drynefs and moifture.

## FACE OF THE COUNTRY, SOIL, AND PRODUCTIONS.

In defcribing a country like this, it is almoft impoffible to treat thefe fubjects feparately. without a repetition of the fame remarks and obfervations; we, therefore, have preferred blending them together, and as an attention to the different rivers which water this State will greatly affift the European reader, in attaining a proper wiew of the foil, $\& c$. we fhall firft mention the principal of them.

The beantiful river Chio bounds Kentacky on the north-weftern fide in its whole length, being a mile and fometimes lefs in breadth, and is fufficient to carry boats of great burthen: its general courfe is fouth $60^{\circ}$ weft; and in its courfe it receives numbers of large and fmall rivers, which mingle with its ftrcams. The only difadvantage this fine river has, is a rapid, one mile and a half long, and one mile and a quarter broad, called the falls of Ohio. In this place the river runs over a rocky bottom, and the defcent is fo gradual, that the fall does not probably in the whole exceed twenty feet. In fome places we may obferve it to fall a few feet. When the ftream is fow, empty boats only can pafs and repais this rapid; their lading muit be tranfported by land; but when high, boats of any burthen may pafs in fafety. Excepting this place, there is not a finer river in the world for navigation by boats.* Befides this, Kentucky is watered by eight fmaller rivers, and many large and fmall creeks.

Licning River, heading in the mountains with Cumberland river, and the north branch of Kentucky, runs in a north-weft direction for upwards of one hundred miles, collecting its filver ftreams from many branches, and is about an hundred yards broad at its mouth.

Reis River $\dagger$ heads and interlocks with the main branch of Licking, and flows in a fouth-weft courle into Kentucky river, being about fixity miles long, and fixity yards wide at its mouth.

[^17]Kentucky River, rifes with three heads, from a mountainous part of the country : its northern branch interlocks with Cumberland; runs half way in a wefterly direction, and the other half northwefterly. It is amazingly crooked upwards of two hundred miles in length, and about one hundred and fifty yards broad.

Elkhorn, is a fmall river which empties itfelf into Kentucky in a north-weft-by-weft courfe; is about fifty miles long, and fifty yards broad at the mouth.

Dick's River, joins the Fientucky in a north-weft direction; is about forty-five miles long, and forty-five yards wide at its mouth. This river curioufly heads and interlocks its branches with Salt river ${ }_{3}$ Green river, and the waters of Rockcaftle river.

Salt River, rifes at four different places near each other. The windings of this river are curious, rolling its ftreams round a fpacious tract of fine land, and uniting almof fifteen miles before they approach the Ohio, and twenty miles below the falls. It is amazingly crooked, and runs a weftern courfe near ninety miles.

Green River, interlocking with the heads of Dick's river, as mentioned above, is alfo amazingly crooked; it keeps a weftera courfe for upwards of one hundred and fifty miles, and is about eighty yards wide at its mouth, which is about two hundred and twenty miles below the falls.

Cumberland River, interlocks fith the northern branch of Kentucky, as aforefaid, and rolling round the other arms of the Kentucky among the mountains, in a fouthern courfe for one hundred miles, then in a fouth-weftern courfe for above one hundred miles; then in a fouthern and fouth-weftern courfe for about two hundred and fifty more, finds the Ohio four hundred and thirteen miles below the falls. At Nahiville this river is ${ }^{\circ}$ two hundred yards broad, and at its mouth three hundred, having paffed through the territory fouth of the Ohio abcut half its courfe.

The Great Kanhawa, or New river, rifes in North-Carolina, runs in a northern and north-weftern courfe, for upwards of four hundred miles, and finds the Ohio four hundred miles above the falls. It is abcut five hundred yards wide at its mouth. Thefe two rivers are juft mentioned, being beyond the limits of this State. They-mun contrary courfes, are exceeding large, and it is worth notice, that Clinch, Holftein, Nolachucky and French-Broad rivers, take their rife between thefe two, or rather weftward of New river, fame of them rifing and interlocking with it; and when they meet, form what
what is called the Tenneffee river, which runs a weftern courfe, and finds the Ohio twelve miles below Cumberland river: it is very large, and has fpacious tracts of fine land.
Thefe rivers are navigable for boats almoft to their fources, with-
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of the forl is amazingly fertile, fome not fo good, and fome poor. The inhabitants diftinguifh its quality by firf, fecond, and third rate lands; and fcarcely any fuch thing as a marfh or fuamp is to be found. There is a ridge where Kentucky rifes, nearly of the fize of a mountain.

All the land below the Great Kanhawa, until we come near the waters of Licking river, is broken, hilly, and generally poor ; except in fome valleys, and on Little and Great Sandy creeks, where there is fome firft rate land, but moftly fecond and third rate: it is faid that near this water is found a pure falt rock. Upon the north branch of Licking, we find a great body of firft rate land. This ftream runs nearly parallel to the Ohio for a confiderable diftance, and is about feven miles from the mouth of Lime-ftone creek; where is a fine harbour for boats coming down the Ohio, and now a common landing; it is fixty-five miles from Lexington, to which there is a large waggon road. The main branch of Licking is about twenty-two miles from Lime-ftone; on this ftream we find fome firft, but moftly fefecond and third rate lands, and towards its head fomething hilly. There we find the Blue Licks, two fine falt fprings, where great plenty of fait may be made. Round thefe licks, the foil is poor for fome diftance, being much impregnated with falt.

The fouthern branch of Licking, and all its other arms, fpread through a great body of firf, and fome fecond rate land, where there is abundance of cane, and fome falt licks and fprings. On thefe feveral branches of Licking are good mill feats, with navigation to the Ohio, from the fork down to its mouth. The land is hilly, and generally poor, yet along the freams and in valleys we find fome excellent land.

The Elkhorn lands are much efteemed, being fituated in a bend of Kentucky river, of great extent, in which this littie river, or rather large creek, rifes. Here we find moftiy firft rate land, and near the Kentucky river fecond and third rate. This great tract is beautifully fituated, covered with cane, wild rye, and clover, and many of the ftreams afford many fine mill feats.

The lands below the mouth of Elkhorn, up Fagle creek, and toward the Ohio, are hilly and poor, except thofe contained in a great bend of the Ohio, oppofite the Great Miami, cut off by the Big-bone and Bank-lick creeks, interlocking, and running feparate courfes. Here we find a great deal of good land, but fomething hilly.

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On Kentucky river we find many fertile valleys, or bottoms alorg the river, efpecially towards its rife. There is good land alfo on Red river, but toward the heads of this and the Kentucky, the foil is broken; but even here, we find in valleys and along the ftreams, a great deal of fruitful land. Generally the foil within a mile or two of Kentucky river is of the third andfourth rates; from about that diftance; as we leave it on either fide, we approach good lands. The country through which it winds its courfe, for the moft part, may be confidered as level to its banks, or rather precipices; from the brow of which we behold the river, three and fometimes four hundred feet deep, like a great canal.

Dick's river runs through a great body of firft rate land, abounding every where with cane, and affords many excellent mill feats. Many mills are already built on this ftream, and will have a plentiful fupply of water in the dryeft feafons. The banks of this river, near its mouth, are fimilar to the banks of the Kentucky. The feveral ftreams and branches of Salt river afford excellent mill feats; thefe roll themfelves through a great tract of excellent land, but the country from the junction of thefe waters, and fome miles above towards the Ohio, which may be about twenty-five miles, is level and poor, and has abundance of ponds. For a confiderable diftance from the head of this river, the land is of the firft quality, well fituated, and abounds with fine canè. Upon this and Dick's river, the inhabitants are chiefly fettled, it being the fafeft part of the country from the incurfions of the Indians.

Green river affords excellent mill feats, and a conftant ftream. This is allowed to be the beft watered part of Kentucky. On its banks we find many fine bottoms, fome firft rate, but moftly fecond and third rate lands, and at fome diffance, many knobs, ridges, and broken poor land. Below a creek called Sinking creek, on this river, within fifty miles of the Ohio, towards Salt river, a great territory begins, called Green river Barrens, extending to the Ohio ; it has notimber, and little water, but affords excellent pafturage for cattle. On fome parts of this river we find abundance of cane, fome falt licks, and fulphureous and bituminous fprings.

That part of Cumberland river which is in the Kentucky country, traverfes a hilly poor land, though in fome parts we find good foil along its fides. The other rivers mentioned, viz. Great Kanhawa and Tenneffee, are not in the Kentucky country, and therefore will be treated of in another place.

The reader by cafting his eye upon the map, and viewing round the heads of Licking from the Ohio, and round the heads of Kentucky, Dick's river, and down the Green river to the Ohio, may view in that great compafs of above one hundred miles iquare, the moft extraordinary country upon which the fun ever finone.

South of Green river, in the lands referved for the continental and ftate troops of Virginia, an exceeding valuable lead mine has lately been difcovered. Iron ore is likewife found on Rough creek, a ftream running into this river.

The Ohio river, the great refervoir of all the numerons rivers that flow into it from both banks, has many fime valleys along its fides, and we obferve that oppofite to each of them there is a hill, thefe hills and bottoms changing fides alternately. It only remains under this head to inform the reader that there is a great body of firft rate lands near the falls or rapids, called Bear-grafs; and it will be fufficient juft to mention, that the country on the morth-wefl fide of the Ohio is allowed by all travellers to be a moft fertile level coantry, and wellwatered.

The foil of Kentucky is of a loofe, deep back monld, without fand, in the firt rate lands, abouttwo cr three feet deep, and exceedingly fuxurious in all its prodiations. In fome places the mould inclines to brown; in fome the wood, as the natural confequence of too rich a foil, is of little value; appearing like dead timber and large ftumps in a field lately cleared. Thefe parts are not confiderable. The country in general may be confidered as well timbered, produ-

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## I $3^{2}$ <br> - GENERAL DESCRIPTION

cing large trees of many kinds, and to be exceeded by no country in variety.* Thofe of the natural growth, and which are peculiar to Kentucky, are the fugar tree, which grows in all parts in great plenty, and furnifhes every family with plenty of excellent fugar. The honey locuft is curioufly furrounded with large thorny fpikes, bearing broad and long pods, in form of peas, has a fweet tafte, and makes excellent beer.

The coffee tree greatly refembles the black oak, grows large, and alfo bears a pod, in which is enclofed coffee. The papwa tree does not grow to a great fize, is a foft wood, bears a fine fruit, much like a cucumber in fhape and fize, and taftes fweet. The cucumber tree is fmall and foft, with remarkable leaves, bears a fruit much refembling that from which it is named. Biack mulberry trees are in abundance. 'The wild cherry tree is here frequent, of large fize, and fupplies the inhabitants with boards for all their buildings. Here alfo is the buck eye, an excellent foft wood, bearing a remarkable black fruit, and fome other kinds of trees not common elfewhere. Here is great plenty of fine cane, on which the cattle feed and grow fat. This plant, in general, grows from three to twelve feet high, of a hard fub-

[^19]wanefe fallad, wild lettuce, and pepper grafs, and many more, as yet unknown to the inhabitants, but which, no doubt, have excellent virtues. Here are feen the fineft crown imperial in the world, the cardinal flower, fo much extolled for its fcarlet colour ; and all the year, excepting the winter months, the plains and valleys are adorned with variety of flowers of the moft admirable beauty. Here is alfo found the tulip-bearing laurel tree, or magnolia, which has an exquifite fmell, and continues to bloffom and feed for feveral months together.
This country is richeft on the higher lands, exceeding the fineft low grounds in the fettled parts of the continent. When cultivated, it produces in common fify and fixty buikels per acre ; and it has been affirmed by credible perfons, that above one hundred bufhels of good corn were produced from an acre in one feafon.* The firft rate land is too rich for wheat till it has been reduced by four or five years cultivation.
Colonel Harrod, a gentleman of veracity in Kentucky, has lately experienced the production of fmall grain; and affirms, that he had thirty-five bulhels of wheat, and fifty buthels of rye per acre.

In common, the land will produce about thirty bufhels of wheat and rye, upon a moderate coraputation, per acre; and this is the general opinion of the inhabitants. We may fuppofe that barley and oats will increafe abundantly; as yet they have not been fufficiently tried. The foil is very favourable to flax and hemp, turnips, potatoes, and cotton, which grow in abundance; and the fecond, third, and fourth rate lands are as proper for fmall grain. Every huibandman
gencrally through the country, according to the different foils, but are not to be met with univertally. The woods, however, afford abuadance of food for cattle; and in confequence of this abunriance, the people pay very little aticution to the making and improving pafture lands. The milk from this food is, however, thin, and both that and the butter retain a ftrong tafte of weeds. In hot weather, their milk will turn four in two or three hours affer milising; but as the cuftom of the country is to ufe four milk, this difadvantage is not much regretted. American Miffeum, 1792.
*The great boaft of a Kentucky-man is the quantity of corn that the land will raife upon as acre, of which one hundred and feven bufhels are the greateft quantity that I could find afcertained to have been produced : this, in the fall, fells for fix-pence a bufhel. The common produce of the foil is from fifty to eighty buhels an acre, in a favourable fealon. This, upon an average, is about three times the quantity we can raife on an acre in the old States; grain of chis kind muft cherefore always be low in Kentucky, probably lower than at prefent, when the comutry comes to be more opened. Ibice
may have a good garden or meadow, without water or manure, where he pleafes.

The old Virginia planters fay, that if the climate does not prove too moif, few foils known will yield more or better tobacco.* Experience has proved, that the climate is not too moift. Great quantities of this article have been exported to France and Spain, through New-Orleans; and it is a well-kown fact, that Philadelphia is a profitable market for the Kentucky planter, notwithftanding all the inconveniencies and expenfes of re-fhipment at New-Orleans, under a Spanifh government. What advantages then may not this country expect from a free navigation of the Miffilippi, unreftrained by Spanin policy!
Iron ore and lead are found in abundance, but we do not hear of any filver or gold mine as yet difcovered. .

There appear to be great natural ftores of fulphur and falt in this country. A fpring at Boonfborough confantly emits fulphireous particies, and near the fame place is a falt fpring. There is another fulphureous fpring upon Four Mile creek, a third upon Green river, and many others in different places, abounding with that ufeful mineral.

There are three fprings or ponds of bitumen near Green river, which do not form a ftream, but difgorge themfelves into a common refervoir, and when ufed in lamps, anfwer all the purpofes of the fineft oil.
There are different places abounding with copperas, eafily procured, ral, and when purified is a beautiful allum.

Many fine falt fprings confantly emit water, which being mafiufactured, affords great quantities of fine falt. There are five, which in time will become of the utmoft importance, viz. the higher and

[^20]am:
lower Blue Springs, on Licking river, from fome of which, it is faid, iffue ftreams of brinifh water-the Big-bone lick, Drennon's lick, and Bullet's lick, at Saltiburgh. The laft of thefe licks, though in low order, has fupplied this country and Cumberland with fatt at twenty fhillings the bufhel, Virginia currency; and fome is exported to the Illinois country. The method of procuring water from thefe licks is by finking wells from thirty to forty feet deep. The water drawn from thefe wells is more ftrongly impregnated with falt than the water from the fea.

The Nob lick, and many others, do not produce water, but confift of clay mixed with falt particles: to thefe the cattle repair, and reduce high hills rather to valleys than plains. The amazing herds of buffalo which refort thither, by their fize and number, fill the traveller with amazement and terror, efpecially when he beholds the prodigious roads they have made from all quarters; as if leading to fone populous city; the vaft fpace of land around thefe fprings, defolated as if by a ravaging enemy, and hills reduced to piains, for the land near thofe fprings are chiefly hilly: thefe are truly curiofities, and the eye can.fcarcely be fatisfied with admiring them.

A medicinal fpring is found near the Great-bone lick, which has perfectly cured the itch by once bathing; and experience in time may difcover in it other virtues. There is another of like nature near Drinnon's lick.

The weftern waters produce plenty of fifh and fowl. The finh, common to the waters of the Ohio, are a buffalo fifh, of a large fize, and the cat fifh, fometimes exceeding one hundred weight. Trout have been taken in the Kentucky weighing thirty pounds. The mullet, rock, perch, gar fifh, and eel, are here in plenty. Suckers, fun fifh, and other hook filh, are abundant ; but no fhad or herrings. On thefe waters, and efpecially on the Ohio, the geefe and ducks are amazingly numerous.

The land fowls are turkeys, which are very frequent, pheafants and partridges. The parroquet, a bird every way refembling a parrot, but much fraalier; the tvory bill woodcock, of a whitifh colour, with a white plume, flies fcreaming exceeding flarp: It is afferted, that the bill of this bird is pure ivory, a circumftance very fingular im the plumy tribe. The great owl refembles its fpecies in other parts, but is remarkably different in its vociferation, fometimes making. 2 Atrange furprifing noife, like a man in the moft extreme danger and difficulty.

Serpents are not numerous, and are fuch as are to be found in other parts of the continent, except the bull, the horned, and the

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mockafon fnakes. Swamps are rare, and confequently frogs and other reptiles, common to fuch places. There are no fwarms of bees, except fuch as have been introduced by the prefent inhabitants; thefe have increafed and extended themfelves in an almolt unparalleled manner of late years.

Among the native animals are the urus, or bifon, called improperly a buffalo; hunters have afferted that they have feen above one thoufand of thefe animals at the Blue licks at once; fo numerous were they before the firf fettlers had wantonly fported away their lives. There ftill remains a great number in the exterior parts of the fettlement. They feed upon cane and grafs, ás other cattle, and are iñocent harmlefs creatures.

There are ftill to be found many deer, elks, and bears, within the fettlement, and many more on the borders of it. There are alfo panthers, wild cats, and wolves.

The waters have plenty of beavers, otters, minks, and mulk rats: nor are the animals common to other parts wanting, fuch as foxes, rabbits, fquirrels, racoons, ground hogs, pole cats, and opoffums. Moft of the fpecies of the domeftic quadrupeds have been introduced fince the fettlement, fuch as horfes, cows, fheep and hogs, which are prodigioufly multiplied, fuffered to run in the woods without a keeper, and only brought home when wanted.

> CURIOSITIES.

Amongft the natural curiofities of this country, the winding banks, or rather precipices of the Kentucky, and Dick's river, deferve the firft place. The aftonifhed eye there beholds almoft every where three or four hundred feet of a folid perpendicular lime-ftone rock ; in fome parts a fine white marble, either curioufly arched, pillared, or blocked up into fine building ftones. Thefe precipices, as was obferved before, are like the fides of a deep trench or canal; the land above being level, except where creeks fet in, and crowned with fine groves of red cedar. It is only at particular places that this river can be croffed, one of which is worthy of admiration; this is a great large road enough for waggons made by the buffalo, floping with an eafy defcenfe from the top to the bottom of a very large fteep hill, at or near the river above Lees-town.

- Caves are found in this country amazingly:large; in fome of which you may travel feveral miles under a fine lime-ftone rock, fupported by curious arches and pillars: in moft of them runs a ftream of water.

Near the Head of Salt river a fubterraneous lake or large pond has lately been difcovered. Colonel Bowman fays, that he and a companion travelled in one four hours, till he luckily came to the mouth again. The fame gentleman mentions another which operates like an air furnace, and contains much fulphur. An adventurer in any of thefe will have a perfect idea of primxyal darknefs.

Near Lexington are to be feen curious fepulchres, full of buman fkeletons, which are thus fabricated. Firft on the ground are laid large broad ftones, on thefe are placed the bodies, feparated from each other by broad ftones, covered with others which ferve as a bafis for the next arrangement of bodies. In this order they are built, without mortar, growing ftill narrower to the height of a man. This method of burying appears to be totally different from that now practifed by the Indians.

At a falt fpring near Ohio river, very large bones are found, far furpafing the fize of any fpecies of animals now in America The head appears to have been about three feet long, the ribs feven, and the thigh bones about four; one of which is repofited in the library in Philadelphia, and faid to weigh feventy-eight pounds. The tuks are above a foot in length, the grinders about five inches fquare, and eight inches long. Thefe bones have attracted the attention of philofophers; fpecimens of them have been fent both to France and England, where they have been examined with the greateft diligence, and found upon comparifon to be the remains of the fame fpecies of animals that produced thofe other foffil bones which have been difcovered in Tartary, Chili, and feveral other places, both of the old and new continent. What animal this is, and by what means its ruins are found in regions fo widely different, and where none fuch exifts at prefent, is a queftion of more difficult decifon. The ignorant and fuperfitious Tartars attribute them to a creature whon they call Maimon, who, they fay, ufually refides at the bottom of the rivers, and of whom they relate many marvellous ftories; but as this is an affertion totally divefted of proof, and even of probability, it has juftly been rejected by the learned; and on the other hand it is certain, that no fuch amphibious quadruped exifts in the American waters. The bones themfelves bear a great refemblance to thofe of the elephant. There is no other terreftrial animal now known large enough to produce them. The tulks with which they are both furnilled, equally produce true ivory. Thefe external refemblances have generally made fuperficial obfervers conclude, that they could belong Vol. III.
to no other than that quadruped; and when they firft dreve the ats. tention of the world, philofophers feem to have fubforibed to the fame opinion. But if fo, whence is it that the whole fpecies has difa peared from America? An animal fo laborious and fo docile as the elephant, that the induftry of the Peruvians (which reduced to ferviṭude and fubjected to education fpecies fo vaftly inferior in thofe qualities, as the Llama and the Paca) could never have overlooked, if he had been to be found in their country. Whence is it that thefe bones are found in climates where the elephant, a native of the torrid: zone, cannot even fubift in his wild ftate, and in a ftate of fervitude will not propagate? Thefe are difficulties fufficient to ftagger credulity itfelf, and at iength produced the inquiries of Dr. Hunter. That celebrated anatomift having procured fpecimens, from the Ohio, examined then with that accuracy for which he was fo much diftinguifhed: he diicovered a confiderable difference between the fhape. and itructure of the bones, and thofe of the elephant; he obferved, from the form of the teeth, that they muft have belonged to a carnivorous animal; whereas the habits of the elephant are foreign to. fuch fuftenance, and his jaws totally unprovided with the teeth ne-. ceffary for its ufe; and from the whole he concluded, to the fatisfaction of naturalifts, that thefe bones belonged to a quadruped now unknown, but to which the name of Mammoth has been given, with what, propriety we will not pretend to fay; the race is probably extinct, unlefs it may be found in the extenfive continent of NewHolland, whofe reciffes have not yet been pervaded by the curiofity or avidity of civilized man.* Perhaps nothing more will ever be difcovered

[^21]Colorel

## OF XENTUCKY.

Gered than the memorials above related. The following tradition exifting among the natives, we give in the very terms of a Shatvanee Indian, to thew thiat the impreffion made on their minds by it mutt have been forcible.

Col. G. Morgan, in a note to Mr. Morfe, fazs, "theit bones are found only at the filt Yicks on the Ohio; fome few fcatered grinders have, indeed, been found in other rlaces; but it has been fuppofed thefe have been brought from the above-mentioned depcat, by Iadian warriors and others who have paffed it, as we know many have been fpread in this manner. When I firf vifited the fait lick, fays the Coione!, in 1766 , I met here $a$ large party of the Iroquois and Wiandot Indians, who were then on a war expedition againt the Chicafaw tribe. The head chief was a very old man to be engaged in war; he told me he was eighty-four years old ; he was probably as much as eighty. I fixed on this venerable chief, as a perfon from whorn feme knowledge might be obtained. After making him fome fmall acceptable prefents of tobacco, paint, ammunition, \&c. and complimenting him upon the wifdom of his nation, their prowefs in war and prudence in peace, intimated to him my ignorance refpecting the great bones before us, which nothing but his fuperior knowledge could remove; and accordingly requefed him to inform me what he knew concerning them. Agreeably to the cuftoms of his nation, he anfwered me in fubftauce as follows:
" Whilit $I$ wes yet a boy $I$ paffed this road fevenal times, to war againt the Catawbas; and the wife old chiefs, among whom was my grandfather, then give me the madition, handed down to us, refpesting thefe bones, the like to which are found in no other part of the country." It is as follows:
"s After the Great Spirit firit formed the world, he made the various birds and beafts which now inhabit it. He alfo made man; but having formed him white, and very imperfect, and ill-tempered, he placed him on one fide of it where he now inhabits, and from whence he has lately found a paffage acrofs the great water, to be a ylague to us. As the Gieat Spirit was not pleafed with this his work, he took of black clay, and made what you call a negro, with a woolly head. Tins black man was much letiter than the white man; but ftill he did not anfwer the wifh of the Great Spirit, that is, he was imperfen; at laft, the Great Spirit having procured 3 piece of pure, fine red clay, formed from it the Red Man, perfectly to his mind; and he was fo well pleafed with him, that he placed bim on tilis great ifland, feparate from the white and black men, and gave him rules for his concuet, promifng happinefs in proportion as they thould be offerved. He increafed erccedingis, and was perfectly happy for ages; but the foolifin young pecpie, at length forgettiry his rules, became exceedingly ill-tempered and wicked. In confequence of this, the Great Spirit created the great biffalo; the bones of which you now fee before us; thefe made wat upon the human fpecies alone, and defroyed all but a few, who repented and promifed the Great Spirit to live according to his laws, if he would peftrain the devouricy enems : whereuson he fent iightning and thunder, and deftrored the whole race, in this fpra, two excepted, a male and a femaie, which he fhut ip in joader mourtain, ready to tet loofe agair, fould occabion require."

## 140 GENERAL DESCRIPTION

" Ten thoufand moons ago, when nought but gloomy forefts coif rered this land of the fleeping fun, long before the pale men, witir thunder and fire at their command; rufhed on the wings of the wind to ruin this garden of nature ; when nought but the untamed wanderers of the woods, and men as unreftrained as they, were the lords of the foil; a race of animals were in being, huge as the frowning precipice, cruel as the bloody panther, fwift as the defcending eagle, and terrible as the angel of night. The pines crabhed beneath their feet, and the lake firunk when they flaked their thirft; the forceful javelin in vain was hurled, and the barbed arrow fell harmlefs from: their fide. Forefts were laid wafte at a meal ; the groans of expiring animals were every where heard, and whole villages inhabited by men were deftroyed in a môment. The cry of univerfal diftrefs extended even to the region of peace in the weft, and the good fpirit interpofed to fave the unhappy. The forked lightning gleamed alk around, and loudeft thunder rocked the globe. The bolts of Heaven were huried upon the cruel deftroyers alone, and the mountains echoed with the bellowings of deathe All were killed except one male, the fierceft of the race, and him even the artillery of the lkies afjaited in vain. He afcended the blueft fummit which fhades the fource of the Monongahela, and roaring aloud bid defance to every vengeance. The red lightning foorched the lofty firs, and rived the knotty oaks, but only glanced upon the enraged monfter. At length, maddened with fury, he leaped over the waves of the weft at a bound, and this moment reigns the uncontrouled monarch of the wildernefs; in defpite of even Omnipotence itfelf.?

## CIVIL DIVISIONS AND CHEE TOWNS.

Kentucky was originally divided into two counties, Lipcoln and Jefferfon. It has fince been fubdivided into nine, viz. Jefferfon,

Coionel Mórgan adds, "I have every naterial bone of the anatomy of this ani-. raal, with feveral jaw bones in which the grinders are entire; and feveral of the great rufks, one of which is fix feet long, and twenty in circumference." Mr. Morfe fuppofes fome miftake in thefe laft words, and obferves; that probably the word inches ought to have been added to the trwenty.

It has been faid by Mr. Jefferfun, that the grinders of the maminoth are five or fix times as large as thofe of the elephant. Colonel Morgan fays not; he obferves, "I have feen the grinder of an clephant as large and as heavy as the largeft of the mammoth; they are'indeed thinner, deeper rooted, and differently fhaped, denoting a granivorous animal, whereas the grinders of the mammoth refemble thofe of a wolf os dog, and fhew them to have been carniworous."



## OF KENTUCKY:

Fayette, Bourbon, Mercer, Nelfon, Madifon, Lincoln; Woodford, and Mafon. As moft of thefe counties are very large, it is probable that fub-divifions will continue to be made, as population increafes.

The chief towns are;

## LEXINGTON,

Which ftands on the head waters of Elkhorn river, and is reckoned . the capital of Kentucky. Here the courts are held, and bufinefs regularly conducted. In ${ }_{17} 86$, it contained about one hundred houfes, and feveral ftores, with a good affortment of dry goods. It bas greatily increated fince:
whinginton.
This is the flime town of Mafon county, and is the fecond tomn in this State.

## LEES-TOWN:

Lees-town is weft of Lexington, on the eaftern bank of Kentucky river; it is regularly laid out, and is flourifhing. The banks of Kentucky river, as before obferved; are remarkably high, in fome places three and four hundred ${ }^{-}$feet, compofed generally of ftupendous perpendicular rocks; the confequence is, there are few croffing places; the beft is at Lees-town, which is a circumftance that mult contribute much to its increafe. ios

LOUISVIILE.
Louifille is at the repids of Ohio, in a fertile country, and promifes to be a place of great trade; it has been made a port of entry. Its unhealthinefs; orring to ftagnated waters at the back of the town, has confrderably retarded its growth. In addition to thefe, there is Beard's-town, in Nelfon cornty; and Hairodfburgh; in Mercer county; both on the head waters of Salt river. Damille, Boonforough, and Granville, are aifo increafing towns. Several new townflips are marked out; the principal of thefe are, Lyftra, Frankiin, and Ohiopiomingo. On each of thele, towns are laid out, and no doubt can be entertained but that a rapid progrefs will be made'in fettling them.

The townfip of Lyftra contains fifteen thoufand acres on the solling fork of Salt river, in about $37^{\frac{10}{4}}$ northlatitude, and $85 \frac{\pi}{2}$ longitude weft from London.* The town is laid out on the South creek

[^22]treek of the above fork, ori a very eligible plan, combining every thing neceflary for utility and oruament.

The ffreets, angles, circus and flore of the creek, to be free for public ufe. The ifreets to be one hundred feet wide: The houfes to be built regularly, according to the tafte of the proprietor, upon the freets running north and fouth, on a line twenty-five feet diffant from the ftreet, and upon the ftreets running eaft and weft, on a tion with the frreets.

The town is divided into one hundred and eighty-eight lots; Fourreen of which to be free for the gratuitants, as by a particular yrrangement.

Twelve lots, in eligible fituations, to be réferred for fixch fub: Fcribers as take ten fhares, one lot to each fuch fubficiber.

One lot to be free to the firft fchoolmafter; and his heirs, chofen and fettled by the freeholders of the townhip and tofn:

One lot free to the prefident of a college, and bis fucceffors.
Ore lot free to the firt member of Congreis belonging to Nelfon rounty, chofen after the year i 1794 , as a refidence in Lyffra, prorided he builds a houfe thereon, in whick cafe it is granted to him

It is divided into one hundred and fifty fhares, for each of which a certificate is irfued on a ftamped parchment, containing a receipt for the confideration moner; Which at prefert is twenty pounds, and exprefing the title to the futicriber and his beirs;

The agents are impowered to grant fourteen lots, in proper fituations; to fettlers gratis; and to fell fourteen lots on the eaft fide of faid gratuitous loss in the year ri794; at twenty pounds each ; and fourteen lots on their north ends in the year 1795, at thirty pounds each; and fourteen lots on their fouth ends in the year 1796, at forty pounds each; and fourteen lots on the weft fries in the year $179 \%$, at fiftr-five. pounds each; and fourteei lots on the north-wefferners in the rear 1798; at ferentry founds each; and fourteen lots on the northeaf corners in the year 1799, at ninety pounds each; and fourteen lots on the fouth-weft comers in the year 1800, at one bundred and twenty pounds each; and fourteen lots on the fouth-eafe corimers in the rear iSor, at one kundred and fifty pounds each; and twelve of the remaining lots in the year 1802, at two hundred pounds each; and the laft twelve lots in the sear 2S03, at two hundred and fify pounds each; provided in each jear a larger price than is bere ipecified cannot be obtained : and if any lands remain unfold in the year 1804; they are to be equally diviied among, and legally conveged unto, the fuiseribers and their hers as their private property. . 1

As faft as the money arifes by this re-fale of the lands; it is to te paid in equal dividends to the holders of the certificates.

The agorits receive an allowance of five pounds per cent. for their trouble
Af which is more particularly fot forth in the printed plan, which may be had gratis aft the American Agrncy Office, Thrcadneedle-fircet, Tondon.
and his heirs; otherwife, the grant is to the next chofen member who will build on thefe terms.

One lot free for the firft fenator, in like mammer.
One lot free for the firf judge, provided Lyfira frall become a town where courts are held, and the judge fall baild a houfe on the lot, in which cafe the grant is to mim and his heirss otherwife to the next judge who fhall take it upon thofe terms.

One lot free to the figt minifter of the firft churchs, whatever the perfuafion may be, chofen by the free fuifrigges of the freeholders, and his heirs, And a lot free to the fand firf minifter and his fucceffors.

One lot free to the firfit man who fall ereat a commodious hotel for the entertainment of travellers, umdenake to keep it in good prder and well-provided with refrellincents, on rearonable terms, under the regulation of the police, according to circumifances; providing for the comfort of the traveller, and guarding ftrictly againat. impofition.

Two lots ${ }^{\text {to }}$ to be free lots for pubice gramaies, to be ufed by merchants, who will build upon thean gratio, tuifilluch time as the public. occafions thall call for their appropriated wie.

The angles marked in the plate $a, a_{2}, a, a$, to be appropriated as market-places; and the frrand of the creek to be commodioully edi-. fied with docks and landings, whenever the umappropriated public lots thall bear a price equai to the undentaing, rogether with fuch improvements of the navigation in the roling Form, as fhall be found proper and expedient. And from thefe immurities, thofe parts of a lot formed by the Fork of Lyffra creek, flall belong to the liberties of the town, to be kept in a neat manner as a commor meadow, upon which every inhabitant of the town, and frecholder of the townlbip, fhall have the privilege of grazing his horfe the firft night of his coming into the town, or of his refurn from a journey, under the infpection of an overfeer, tairing care to do no injury to fence, or hedge, or farub. The remaining parts fhall alfo belong to the liberties of the town, and fratily be hiad out in fuch lots, with fuch reftraints on the order of brilding as fhaill preferve. the beanty of the rhole; and thefe lots, together with what remains unappropriated hereby, as hereinafter mentioned, in the year. 1 SO4, if not previoully fold by order of the fubferibers, to be then conveyed, with what may remain, if any, of the townflip, to the fubfrribers, as their private property.

## 744

Eighty-four lots in the townfhip are appropriated for the commos good and fole ufe of the town, to be fold at fuch times and on fuch orcafions as fliall arife and be agreed on by the freeholders of the town, for building a church on the angle marked $A$, fo far as ten lots fhall go to that purpofe; an edifise for a college on the angle marked $B$, fo far as ten lots flazil go to that puprofe; an edifice for a town hall on the angle marked C , fo far as ten lots fhall go to that purpofe ; and fome other public building, as a theatre or place of amufement, on the angle marked $D$, fo far as ten lots fhall go to that purpofe. Thefe edifices to be handfome and uniform, to be built with wings fronting the curve line which forms the circus; the church to be adorned "with a fteeple, and the other buildings with cupolas. And for doing other works of public utility, fuch as may arife in ail times hereafter, till the whole ftock thus appropri-, ated is exhaulted ; but as the exigency arifes; - Fuch lots are to be fold for the purpofe, indifcriminately, according as they fhall bear a price adequate to the undertaking:

The townhip of Franklin contains one hundred and fixteen thoufand fix hundred and fifty-fix acres, and is moft commodioully fituated between two capital branches of that fine river which gives name to the State, the banks of which are better peopled than any other part of the State; on which lie the city of Lexington, the towns of Boonfoorough, Danville, Grenville, Leesforin, \&c. affording markets, to the farmer for his produce. The river, about two hundred yards wide at the fpot appropriated for a town already planned, to be called Franklinville, is navigable for large craft many miles above, and by the deep creeks into its interior parts for boats of confiderable burthen.
$=$ In this townflip the farmer will have no need of manuring his grounds for many years to come, nature having already replenifhed the foil with a flock not foon to be exhaufted. A confiderable part of the land is of the prime quality, the fecond and third qualities are fall ftrong enough for the various productions of the faples of life for man and beaft.

Coal of a fuperior quality abounds within the limits, and in fpots near the waters, and convenient for navigation to other parts of the country. There are two falt fprings near the river, and a large quantity of copperas. The defigned town is planned for the point at the confluence of the north and middle branches into the main river. Mafon county, in which this townhip fands, will doubtlefs

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## OF KENTUEKY.

be foon divided into, at leaft, two more, and one will form a natural angle from this point, and probably be bounded by Red river, and Franklinville become the hire town.

The ftreets, angles, circus and crefcents; in this town, to be free to the public.

The ftreets, which, according to the plan, are one hundred feet wide, may be reduced to eighty feet, giving equally to the lots adjoining on each fide, which are, according to the plan, one hundred feet wide and two hundred feet deep, and the houfes to be built regularly, according to the tafte of the proprietors, on a line twentyfire feet diffant from the fireets; and one moiety of each lot to be laid out in gardens, and feparated from each other, and from the viftas, by fimple palifade. This order of building not to be ine. fringed.

Five hundred lots, to be dramn by fome one chofen to reprefent the town for that purpofe, to be vefted in truftees for the ufe thereof, and fold at fuch times and on fuch occafions, as may arife and be agreed on by the fuffrages of the freeholders of the townifhip and town; for building public edifices in the angles within the lines forming the circus and crefcents : the churches to be adorned with handfome fteeples, and the other public buildings with fuitable cupolas, and built with a fufficient degree of uniformity to give thofe frructures a handfome appearance. Alfo for making common fewers, aqueducts, market-places, granaries, piers and landing-places, paving the ftreets, planting the viffas with trees correfponding to their names, embellifhing the circus and crefcents, planting the public garden, lighting, watching and cleaning the town, and doing all fuch matters as belong to the public good, according to the public agreement; but thefe lots not to be fold until they bear a fufficient price for defraying the undertaking, at fuch times when it may be judged expedient.

One hundred and fixteen lots gratis to the fubfribers, one to each thoufand acres.

One hundred lots gratis to the firf hundred refidents.
Twenty-fix lots gratis, formed in the angles of the circus and crefcents, for the miniffers, prefidents, and other officers counected with the public buildings.

One hundred lots, to be balloted for the purpofe, and vefted in truftees, to be granted by the fuffrages of the people, as compliments, accompanying other marks of public efteem; to fuch perfons
as are or thall become refi 'er.t; in the town, and have by fome finsgular fervices deferved fuch honours from the freemen of the townflip.

Four lots gratis, in fuitable parts of the town, to fuch perfons as will build thereon each a handfome and commodious hoiel for the entertainment of travellers, and keep it in good order, and well provided with refrefhments for fuch guefts, on reafonable terms, under the regulation of the police, according to circumftances, providing for the comfort of the travellers, and guarding againft impofition, and to be afigmed by the proprietor only on thefe conditions.

Fifty lots, to be balloted for the purpofe, and referved for building alms-houfes, houfes of induftry, correction, \&c. as occafion may render expedient.

The viftas to keep their full breadth of an hundred feet.
The pleafure-garden to be made botanic, and be under the care of a ptofeffor, under whofe difcretion it may be ufed as a pleafuregarden, by fuch of the inhabitants as are willing to contribute to-- wards is embellifhment.

The remaining one hundred and thirty-nine lots to remain the private property of Mr. Abraham Fowler, who is to make good to each fubfriber his full quota of land; receiving from fuch whofe lots fhall exceed the regular quantity of one hundred and twenty-five, two hundred and fifty, or five hundred acres, three fhillings per acre for the furplus, and paying to thofe whofe lots fhall fall thort of thofe refpective quantities, three millings per acre for the deficiency.

It is flrongly recommended, that no place of interment be fuffered within the limits of the town, but that two lots of ten acres each, without the town, be appropriated for that purpofe.

No perfon can fubfcribe for lefs than one thoufand acres, which will entitle him by ballot, i. to a town lot of two hundred feet in length, and one hundred feet in breadth; 2. to two farms from the divifion neareft the town of one hundred and twenty-five acres each; 3. to one plantation from the next divifion of two hundred and fifty acres; and 4. to one tract in the third divifion of five hundred acres.
The proprietor in America, and his attorney here, are fo confcious of the truth of the above fatement, that they are willing to relinquigh the fale, provided a confiderable part of the land is not of the prime qualities; or what is termed furt-rate land.

Ohiopiomingo, now forming, will be a moft capital townfhip and town, very advantageoufly fituated about twenty miles from Lystra, and thirty miles below Louifville, on the river $\mathrm{Oh}_{\mathrm{h}}$, in the county of Nelson, in about $37^{\circ} 30^{\prime}$ north latitude, containing upwards of one hundred thoufand acres of prime land, and is named, in compliment to Piomingo, one of the indian chiefs, a man greatly beloved and refpected, not only by the Indian tribes but alfo by the whites.

A gentleman of great refpectability, the proprietor of the land; and who has but juft left London, has determined, at his own expenfe of more than one hundred and fifty pounds fterling ${ }_{2}$ to erect, either in the circus or fome principal part of the town, a pedeftrian statue of Piomingo, habited as an Indian warrior, in the atticude of delivering an oration in favour of Liberty: the ftatue and pedeftal, with fuitable ornaments, to be of Coade's artificial ftone, and will be put in hand as foon as an eminent and well-known ftatuary has formed a drawing and model fuitable for the purpofe.

It may not be improper to obferve, that a number of induftrious hufbandmen have voluntarily offered to go out and fettle at Ohropiomingo, under the fuperintendance of a gentleman well verfed in furveying, and competent in other refpects to conduct fo important an undertaking: it is alfo worthy of remark, that this gentleman's father, at the venerable age of ninety, yet in perfect health, has determined to accompany his children and grandchildren to this propitious fpot.

The town is to contain upwards of a thoufand houfes, forty-three ftreets, a circus and feveral capital iquares, which will be embellifhed with various fuitable and handfome ftructures: each fettler in the townfhip will be entitled, in fee fimple, to one town lot of an hundred feet in width, and three hundred feet in length : a field of five acres, and another of twenty acres, will alfo be allotted to each of them, and their farms will confift of five hundred acres each, which will be granted on leafe for nine hundred and ninety-nine years; the three firft years to be rent free, on condition of building a houfe and barn on the premifes, and alfo of bringing under cultivation twenty acres of the land within the term, and on the fourth year the tenants are to commence an annual rent of five pounds for every hundred acres.

The town will enjoy various important privileges and immunities. A college is to be erected for the education of the youth of the
tenantry, and alfo for fuch children of the Indians as they may chufe to fend thither for inftruction, and due care will be taken to inftil into their tender minds the principles of philanthropy, moral rectitude and focial order, together with fuch branches of fcience; as may tend to render them ufeful members of fociety, for which purpofe the proprietor has appropriated fifteen hundred acres of land towards the endowment of the inflitution, and alfo fuitable encouragement to fuch gentlemen of erudition and undoubted character as may chufe to engage in fo important a charge.

The houfes in Kentucky, the towns excepted, are fcarcely deferving of the name; which we fhall have the lefs room towonder at, when we recollect the fhort interval that has elapfed fince the firft fettlement of the country.

## POPULATION.

It is impoffible to afcertain, with any degree of accuracy, the prefent number of inhabitants; owing to the numerous acceffions which are made almoft every month. In $1 ; 83$, in the county of Lincoln only, there were on the militia rolls three thoufand five hundred and feventy men, chiefly emigrants from the lower parts of Virginia. In 1784, the number of inhabitants were reckoned at upwards of thirty thoufand. It is afferted, that at leaft twenty thoufand mis. grated there in the year 1787.
In 1790 , the numbers ftood as follow:

## KENTUCKY.

| $\begin{aligned} & \text { COUNTIES } \\ & \text { ANDDS. } \end{aligned}$ |  |  |  |  | 皆 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fayette County, | 3245 | 3878 | 6738. | 30 | 3689 | 17576 |
| Nellon, . | 2456 | . 2746 | 4644 | 34 | 1219 | 11099 |
| Woodford, | 1767 | 1929 | 3267 | 27 | 2220 | 9210 |
| Bourbon, . | $\pm 645$ | 2035 | 3249 |  | 908 | 7837 |
| Mercer, ${ }^{\text {, }}$ | 1411 | 155 | 2691 | 7 | 1317 | $694 \pm$ |
| Lincoln, | 1375 | 1441 | 2630 | 8 | 10.74 | 6548 |
| Jefferfon; - | 1008 | 997 | 1680 | 4 | 8.76 | 4565 |
| Madifon, | 123 I | 1421 | 2383 |  | 737 | 5772 |
| Mafon, . . . . . . | 43 I | 676 | 952 |  | 208 | 22.6 |
| $\begin{aligned} & \text { Lexington, in Fay- } \\ & \text { ette County, } \end{aligned}$ | 2;6 | 203 | 290 | 2 | 63 | 834 |
| Wafhington, in $\mathrm{Ma}-7$ <br> fon County . . . . | 163 | 95 | 183 |  | 21 | 462 |
| Beard's Town, in $\}$ Nelfon County, | 52 | 49 | 85 | 1 | 9 | 216 |
| Louifville, in Jefterfon County, | 49 | 4 | 79 | 1 | 27 | 200 |
| $\left\{\begin{array}{c} \text { Danville, in Mercer } \\ \text { County, . . . } \end{array}\right\}$ | 49 | 28 | 51 |  | 22 | 150 |
|  | 15154 | 17057 | 28922 | 114 | 12430 | 73677 |

What the prefent number of inhabitants is, it is almoft impoffible to form any correct eftimate of, for no calculations can be made, the number of emigrations have been fo great from Europe and the eaftern States; but perhaps the account will not err far, if we rate them at about one hundred and feventy-five thoufand.

## RELIGION AND CHARACTER.

The Baptifts âre the moft numerous fect in Kentucky. As far back as 1787 they had fixteen churches eftablifhed, befides feveral congregations where churches were not conffituted; thefe were then fupplied by thirty minifters, and by accounts fince received it appears, that their numbers have kept a proportional increafe with that of the State. There are a few Ep: fcopalizns and Romany Catholics,

## 150 GENERAL DESCRIPTION

and feveral refpectable congregations of Preßyterians; and perhaps forme may be found of almoft every perfuafion. The Eaptifts were the firlt that promoted public wormip in this State; they formed three congregations near Harrod's Station, and engaged Mr. David Rice of Virginia as their paftor; and afterwards formed another large congregation at Lexington, the paftoral charge of which they delivered to Mr. Rankin, alfo of Virginia. Thefe were the firf churches in this State.

With refpect to character, the people, collected from different parts, of different manners, cuftoms, religions and political fentiments, have not been long enough together to form an uniform national character : they are, however, in general, polite, humane, hofpitaible and very complaifant. Ameng the fettlers there are gentlemen of abilities, and many genteel families, from feveral of the States, who give dignity and refpectability to the fettlement. They are, in general, more regular than people who ufually fette new countries.

> COMMERCE.

A convenient fituation for commerce is the grand hinge upon which the population, riches, and happinefs of every country greatly depend. Many conceive the fituation of Kentucky to be unfavourable in this refpect, and are of opinion, that the beft channel is from Phitadelphia or Baltimore, by the way of Pittiburgh, and from thence down the Ohio; and upon account of the difficulties and expenfes attending this route, for which there is no remedy, that goods would ever be dear, and the crops not worth removing for fale.* This opinion has been reprobated, as the effect of ignorance of the trade up the Mifffippi from New-Orleans, or Mantchac, at the river or gut, lberville.

Thofe who are acquainted with America know the Miffiffippi and Ohio rivers to be the key to the northern parts of the fouthern conHenct. Thefé are the principal channels through which that exten-

[^23]five region, bathed by their waters, and enriched by the many freams they receive, communicate with the fea, and may truly be confidered eis the great paffage made by the Hand of Nature for a variety of valuable purpofes, and principally to piomore the happinefs and besefit of mankind; among which, the conveyance of the produce $\dot{\theta} f$ that immenfe and fertile country lying weftward of the United States is not the leaft.' A few obfervations on thefe rivers, and fome others flowing into them, are objects fubmitted to the reader's attention, in order to form a jutt idea of the favourable commercial circumftances of this important country.

The Ohio river begins at Pittiburgh, three hundred and twenty "miles weft of Philadelphia, being there formed by the junction of the Allegany and Monangahela rivers, and, running a winding courfe of fouth $60^{\circ}$ weft, falls into the Miffiffipi one thoufand and feventyfour miles, by the meanders of the river, be'ow Pittfburgh. The only obftruction to navigation on this river are the rapids, as defcribed before under the defcription of the Kentucky rivers; but they are paffed in fafety when the fream is high.

The moft remarkable branches compofing the head waters of Ohio are Red-ftone creek, Cheat river and Ychogania. Thefe waters are navigable to a confiderable diftance above Pittfburgh, from November until June, and the Ohio a month longer ; but from Great Kan-. hawa, which is one hundred and ninety-fix miles and a half below Pittourgh, the ftream is navigabie moft parts of the year. Down this river quantities of goods are brought, and fome are conveged up the Kentucky rivers, others on horfeback or in raggons to the fettled part, and fold on an average at one hundred pounds per cent. advance.

The current of the Ohio defcends about two miles an hour in autumn, and when the waters are high about four miles. Thofe of the Kentucky rivers are much the fame, and without rapids, and are of immenfe value to the country, affording finh and fowl, and tranfportation of the produce of the conntry to the beit market. Thefe rivers increafe the Ohio more in depth than breadth. At its mouth it is not more than one and a hàlf mile in width, and enters the Mifflfippi in a fouth-reft direction with a flow current, and a fine channel. This great river, at the junction with the Ohio, runs ina fouth-eaft direction, and afterwatds in a foum-weft, having been a lithe before joined by a greater river cailed Mifforri, which, as before obferved, runs in an eafward direfion through Louifiana,
and afterwards communicates to the Miffiffippi its own muddy and majeftic appearance. The depth is, in common, eight or ten fathoms, until you approach its mouth, which empties itfelf by feveral channels into the gulph of Mexico. Here the navigatign is dangerous, on account of the many iflands, fand-bars and logs, jnterfperfed in its mouth, which is about twenty miles wide. This difadvantage may be remedied almoft in the fame manner that the ftyay concerted. The conflict between the fea and this mighty river, which brings down with its ftream great numbers of trees, mud, leaves, \&c. caufes them to fublide and form fhoals. One of thefe tnees, fopped by its roots or branches, will foon be joined by thoufands more, and fo fixed, that no human force is able to remove them. In time they are confolidated, every flocd adds another iayer to their height, forming ifrnds, which at length are covered with furubs, grafs and cane, and forcibly flift the bed of the river. In this manner we fuppofe mont of the country on each fide of the Miffifippi, below the Iberville, to hare been formed, by iflands uniting to iflands, which, in a fucceffion of time, have greatly encroached on the fea, and produced an extenfive tract of country. If fome of the floating timber at the mouths of this river were moved into fome of the channels, numbers more would incorporate with them; and the current being impeded in thefe, the whole force of the river uniting; one important channel would forcibly be opened; and fufficiently cleared to admit of the moft excellent navigation.

About ninety-nine miles above Orleans is a fort, now called Mantchac by the Spaniards; formerly Fort Bute by the Englifh, who built it. Near this is a large gut, formed by the Miffifippi, on the eaft fide, called Iberville; fome have dignified it with the name of river, when the Miffifippi, its fource, is:high. This is navigable, at moft, not above four months in the year for the firft ten miles; for three miles farther it is from two to fix feet in autumn, and from two to four fathoms the remaining part of the way to lake Maurepas, receiving in its courfe the river Amit, which is navigable for batteaux to a confiderable diftance.

Lake Maurepas is aboat ten miles in length and feven in breadth; and there is a paffage of exe: miles between this and lake Pontchartrain.
, Lake Pontchartrain is about forty miles long, twenty-four broad, and eighteen feet deep. From this lake to the fea the channel is ten miles long, and th:e hundred yauc wide: and the water deep enough
triough to admit large veffels through thefe lakes and their communications. This place, if attended to, might be of confequence to all the weftern country, and to the commerce of Weet-Florida; for it may reafonably be fuppofed, that the inhabitants and traders of the weftern country would rather trade at this place than at NewOrleans, if they could have as good returns for their peltry, and the produce of their foil; as it makes a confiderable difference in their voyage, and faves labour, money and time. Experience will doubtlefs produce confiderable improvements, and render the navigation of the Miffifippi, either by thefe lakes, or New-Orleans, nearly as cheap as any other. That the Miffifippi can anfwer every valuable purpore of trade and commerce, is proved already to a demonftration by experience.

There is reafon to believe that the time is not far diftant when New-Orteans will be a great trading city, and perhaps another be built near Mantchac, at Iberville, that may in time rival its glory.

A prodigious number of iflands, fome of which are of great extent, are interfperfed in this mighty river; and the difficulty in-afcending it in the fpring, when the floods are high, is greatly leffened by eddies or counter currents, which moftly run in the bends near the banks of the river with nearly equal velocity againft the ftream; and affift the afcending boats.

From New-Orleans to the falls of Ohio, batteaux; carrying about forty tons, have been rowed byeighteen or twenty men in eight orten weeks, which, at the extent, will not amount to more than five hundred pounds expenfe, which experience has proved to be about onethird of that from Philadelphia. It is highly probable that in time the diftance will be exceedingly thortened by cutting acrofs bends of the river.

Charlevoix relates, that at Coupee, or Cut point, the river formerly made a great turn; and fome Canadians, by deepening the channel of a frnall brook, diverted the waters of the river into it. The: impetuofity of the fream was fo violent, and the foil of fo rich and loofe a quality, that in a fhort time the point was ențirely cut through, and the old channel left dry, except in inundations, by which traz vellers fave fourteen leagues of their voyage. The new channel has. been founded with a line of thirty fathoms, without finding bottom. When the diftanee is flortened, which we believe may readily be. done; the expenfes of a voyage from New.Orleans to the falls of VoLisII. $\mathbf{X}$ Ohiq,

Ohio will be very inconfiderable. It is known by experience that forty tons of goods cannot be taken to the falls of Ohio from Philadelphia, under fixteen hundred pounds expenfe; but by improvements on the Miffifippi, with the conveniences of the mechanical boats, goods can be brought from New-Orleans to the falls. for the tenth part of that expenfe; and if they are fold at one hundred pounds per cent. now, when brought from Philadelphia at expenfes fo great, what may the merchant afford to fell his goods at, who brings them fo much cheaper? Befides, the great advantages arifing from the exporting of peltry, and country produce, which never can be conveyed to the eaftern ports to any advantage. It is evident alfo that the market from which they receive imports, muft confequently receive their exports, which is the only return they can porfibly make.
By fating the commerce of Kentucky in its proper terms, we find the expenfes fuch, that we conclude with propriety, that that country will ultimately be fupplied with goods as cheap as if fituated but forty miles from Philadelphia.
But perhaps it will be replied, New-Orleans is in the poffefion of the Spaniards, who, whenever they pleaife, may make ufe of that fort, and fome others they have on the Miffiffippi, to prevert the navigation and ruin the trade. The paffage through Iberville is alfo fubject to the Spaniards, and, befides, inconvenient; that ftream continuing fo fhort a time, and in the moft difadvantageous feafon.
It will certainly be abfurd to expect a free navigation of the Miffifippi, whilf the Spaniards are in paffeffion of New-Orleans; to fuppofe it, is an idea calculated to impofe only upon the weak. They may perbaps trade with the Americans upon their own terms, while they think it confiftent with their intereft, but no friendilhip in trade exifts when intereft expires; therefore, when the weifern country lecomes populous and ripe for trade, found policy tells us, the Floridas muft belong to the Americans. According to the article of the definitive treaty, they are to havea free and unmolefted navigation of the Miffiffippi; but experience teacbes mankind thait treaties are not always to be depended upon, the moft folemn being broken.* Hence we learn, not to put much faith in treaties with any of the old governments of Europe.

[^24]${ }^{4}$.Although the Iberville only admits of a fhort and inconvenient narigation, yet if a commercial town were built there, it would be the center of the weftefn trade; and a land carriage of ten or twelve miles would be counted nò difadvantage to the merchant. Nay, in time, a canal may be broke through the gut of Iberville, which mas divert the water of the Miffifippi that way, and render it a place of the greateft confequence in America; but this important period is referved for futurity. The trade of Kentucky is already improving; we have mentioned that tobacco has been exported to France and Spain in great quantities through New-Orleans. They have alfa erefted a paper mill, an oil mill, fulling mills, faw mills, and a great number of valuable grift mills. Their falt works are more than fufficiept to fupply all their inhabirants, at a low price. They make confiderable quantities of fugar from the fugar trees. They have a printingoffice, and publifh a Weekly Gazette. Labourers, particulariy tradefmen, are exceedingly wanted here.

## LITERATURE.

The legilature of Virginia, while Kentucky made a part of that State, made provifion for a college in it, and endowed it with very confiderable landed funds; and a library for its ufe was forwarded thither by the Rev. Mr. John Todd of Virginia, (after obtaining tje confent of the Rev. Dr. Gordon) while an inhabitant of the Maffachufetts State. This library was moftly formed in the following manner: An epiftolary acquaintance having commenced between Mr. Todd and Dr. Gordon, through the influence of their common friend, the Rev. Mr. Samuel Davis, long fince deceafed; a letter was received about the end of 1764 , or beginning of 1765 , from Mr. Todd, in which he expreffed a defire of obtaining a library and fome ptilofophical apparatus, to improve the education of fome young perfons, who were defigned for the miniftry. Dr. Gordon being then fettled at London, upon application obtained a few annual fubfriptions, with feveral donations of money, and of books, which were not clofed till after March 1769 . During that period he received in cafl, including his own fubfription, eighty pounds two fhillings and fix-pence. The late worthy John Thornton, Efq. contributed fifty pounds of it, by the hand of the Rev. Mr. (afterwards Dr.) Wifon, who alfo gave in books ten pounds. Among the contribptars fill living, befide Dr. Gordon himfelf, are the.Rev. Mr. Towle, $X_{2} \quad X$ Meffrs

Meffrs. Fuller, Samuel, and Thomas Statton, Charies Jerdeich David Jennings, Jonathan Eade, Jofeph Ainiley, and John Field of Thames freet.

Of the money collected, twenty-eight pounds ten flillings was paid to the late Mr. Ribright, for an air pump, microfcope, telefcope, and prifms, thorough good, but not new. Cafes, fhipping, freight, infurauce, \&c. at four different periods, came to eight pounds eleven flillings and fix-pence. The forty-three pounds one flilling was laid out to the beft advantage in purchaing a variety of books, which, with thofe that were given, are fuppofed to make the main part of the Lexington library.* Schools are eftablifled in the feveral towns and in general regularly and handfomely fupported.

## RIGHTS OF LAND.

The proprietors of the Kentucky lands obtained their patents from Virginia, and their rights are of three kinds, viz. Thofe which arife from military fervice, from fettlement and pre-emption, or from warrants from the treafury. The military rights are held by officers, or their reprefentatives, as a reward for fervices donè in one of the two laft wars. The fettlement and pre-emption rights arife from occupancy. Every man who, before March 1780, had remained in the country one year, or raifed a crop of corn, was allowed to have a fettlement of four hundred acres, and a pre-emption adjoining it of one thoufand acres. Every man who had only built a cabin, or made any improvement by himfelf or others, was entitiled to a preemption of one thoufand acres, where fuch improvement was made.
In March, ry80, the fettlement and pre-emption rights ceafed, and treafury warrants were afterwards iffued, authorifing their poffeffor to locate the quantity of land mentioned in them, wherever it could be found vacant in Virginia.

The mode of procedure in thefe affairs may be infructive to the reader. After the entry is made in the land-office, there being one in each county, the perfon making the entry takes out a copy of the location, and proceeds to furvey when he pleafes. The plot and certificate of fuch furvey muft be returned to the office within three

[^25]monthe

- "....a after the furvey is maite, there so be recorded; and a copy of ine record muft be taken out in twelre mon-hs, ater the return of the furvey, and prodaced to the aifflant regufter of the land-office in Kentucky, where it maft lie fix months, tiazt prior locators may have time and opportunity to enter a caveat, and prove, their bet:er right. If no caveat is entered in that time, the plot and certificate are fent to the land-office and three months more are zilowed to have the patent returned to the owner.


## CONSTITUTION.

By the conflitution of this State, formed and adopted in 1792, the powers of government are divided into three diutind departments ; legiflative, executive, and judiciary. The legillative power is vefted in a General Afembly, constring of a Senate and Houfe of Reprefentatives; the fupreme execuive in a governor; the judiciary, in the fupreme court of appeals, and foch inferior conts as the legiflature may eftablifh. The reprefentatives are chofen annually by the people; the fenators and governor are chofen for four years, by electors appointed for that purpofe; the judges are appointed duuing good behaviour, by the governor, with advice of the Senate. An enumeration of the free mole inhabitants, above twe:ty-one years old, is to be made once in four years. After each enumeration, the number of fenators and reprefentatives is to be fixed by the legiflature, and apportioned among the feveral counties according to the number of inhabitants. There can mever be fewer than forty, nor more than one hundred reprefertatives. The Senate at firft confifted of eleven members; and for the adirition of every four reprefentatives, one fenator is to be added. The reprefentatives muft be twenty-four years old; the fenators treaty-feven; the governor thitty; and all of them muit have been inhabitants of the State two years. The governor can hold no ocher ofice. The members of the General Affembly, none bet thofe of attorney at haw, juftice of the peace, coroner, and in the militio. Tbe jedges, and all other officers, muft be inhabitants of the comaties for Ehich they are appointed. The governor, members of the General Affembly, and judges, 'receive fated falaries out of the pebic treaury, from which' no money can be drawn, but in cenfequerice of a, Topriation by law. All officers take an oath of fidelity to dícharge the duties of their offices, and are liable to impeachment for mificonduct. Elective officers nouft fwear that they have not wed bribery in obtaining their
elections. All free male citizens, twenty-one years old, having refided in the State two years, or in the county where they offer to vote, one ycar, have a right to vote for reprefentatives, and for electors of fenators and governor, and are privileged from arreft, in civil actions, while attending that bufinefs. The General Affembly meets on the firft Monday in November each year, unlefs fooner convened by the governor. Each Houfe choofes its fpeaker and other officers, judges of the qualification of its members, and determines the rules of its proceedings, of which a journal is kept and publifhed weekly, unleís fecrecy be requifite. The doors of botho Houfes are kept open. The members of the legiflature, while attending the public bufinefs, are privileged from arrefts in civil actions, and may not be queftioned elfewhere for any thing faid in public debate. Impeachments are made by the lower Houfe, and tried by the upper. All revenue bills originate in the Houfe of Rèprefentatives, and are amendable by the Senate, like other bills. Each Eill paffed by both Houfes is prefented to the governor, who muift fign it if he approve it; if not, he muft return it within ten days to the boufe in which it originated : if it be not returned, or if, when returned, it be re-paffed by two thirds of both Houfes, it is a law without his fignature. The governor has power to appoint moft of the executive offices of the State; to remit fines and forfeitures, and grant reprieves and pardons, except in cales of impeachment; to sequire information from executive officers; to convene the General Affembly on extracrdinary occafions, and adjourn them in cafe they cannot agree on the time themfelves. He muft inform the legiflature of the fiate of the Commonwealth; recommend to them fuch meafures as he ihall judge expedient; and fee that the laws are faithfuily executed. The fpeaker of the Senate exercifes the office of governor in cafe of vacancy. The legiflature has power to forbid the farther im. portation of nlaves, but not to emancipate thofe already in the State without the ronfent of the owner, or paying an equivalent. Treafon againft the Commonwealth confifts only in letying war againft it, or in adhering to its enemies, giving them aid and comfort.

The declaration of rights afferts the civil equaiity of all; their right to alter the government, at any time; liberty of confcience; freedom of elections, and of the prefs; trial by jury ; the fubordination of the military to the civil power; the rights of criminals to be heard in their own defence; the right of the people to petition for the redrefs of grievances, to bear arms, and to emigrate from the State.

It prohibits unreafonable fearches and feizures; excelife bail; confinement of debtors, unleis there be prefumption of fraud; fufpenfion of habeas corpus writ, unlefs in rebellion or invafion; ex poft facto laws; attainder by the legilature; ftanding armies; titles of nobility and hereditary diftinction.

In addition to what we have already faid of this'State, we fubjoin the following topographical defcription of the weftern territory, extracted from the letters of Mr. G. Imlay, whofe long refidence in the country furnified him with the moft ample means of arriving at a perfect knowledge of thbfe fubjecis on which he wrote.
"In cafting your eves over the map of.America, you will difcover that its weftern (or middle) country is divided from the Atlantic country by a chain of mountains which rife in the remore parts of the States of New-York and New-Jerfey, and run a fouth-wefterly courfe, until they are loft in the flat lauds of Weft-Florida. The weftern comntry is thofe parts which are watered by the ftreams ruaning into the Miffifippi.
" It is about fifty miles over the Allegany mountains, croffing the route which General Braddcck took from fort Cumberland near the Potomack, at the cefcent into the country of Red-fione, on the Monongahela, the fouthern branch of the Ohio. This river rifes in the fame mountain, confiderab!y to the fouthward, runs nearly parallel with it, the oppofite way, upwards of one hundred miles, and is navigable for bcats nearly to its fource; the whole of this country beyond the mountain is extremely fertile, well watered, and abounding with all kinds of timber calculated for building houfes, boats, cabinet work, \&c. \&c. The fugar maple tree is intermixed in great quantities. From the foot of the mountain it is about fourteen miles to Redftone Old Fort, which is on the banks of the Monongahela, and the ufual place of embarkation of people coming down the Ohio, who travel Braddock's road; ; from thence to Pittfourgh is about fifty miles by water. Large tracts of flat land lay all along upon the banks of this river, from the Old Fortt o Pitiburgh, which are capable of being made into extenfive and lüxuriant meadow ground.
"This country is populous, it being the oldeff fettement, and made immediately after taking Fort du Quefue. The Yohogania empties iffelf into the Monongahela, about ixxteen miles above its
junction with the Allegany river: the country on this river is more $\Rightarrow$ uneven, but in the vallies the foil is extremely rich. Near to Pittfburgh the country is wrell peopled, and there, as well as in Reditone; all the comforts of life are in the greateft abundance. Flour is manufactured in as good a ftyle as in any part of America; and butter, cheefe, bácon, and every kind of provifions can be had in the greateft quantity. This whole country abounds in coal, which lies almoft upon the furface of the ground; the hills oppofite Pittiburgh upon the banks of the Mononganela, which are at leait three hundred feet high, appear to be one folid body of this mineral.
" This muft become in time the moft valuable grazing country in all America from the fertility of its foil, its capability of being formed into extenfive meadows, and its proximity to the mountains which attract the clouds, and produce that moifture fo neceffary to grafs ;befides which, its fituation is about three hundred miles from Philadelphia, about two hundred and forty from Baltimore, and about two hundred and twenty from the federal city on the Potomack, a diftance which is too great to carry by land the bulky articles of hufbandry; but to which cattie may be driven with the greateft eafe.
" This country has derived no inconfiderable advantage from the fettlement of Kentucky, and the other fettlements that are making on the Ohio and Miffiffippi, the great road of migrating from the northern States lying through it; and, indeed, it is moft convenient, both from Maryland and Virginia, at all feafons of the year, provided that there be any thing bulky to carry, the paffage being for the greateft part by water, and the Potomack navigable, a few places excepted, to fort Cumberland; all of which obftructions will be removed in a few years by canals that are cutting. From fort Cumberland it is about fixty miles land carriage to Redftone Old Fort; but fo friendly has nature been to this country, though it is without feas, yet the rivers rua in fuch directions, that there is fcarce any place in all the back parts of America where art may not reduce the land carriage to a very fma!! ditance. I cannot fpeak upon fo general a fubject defintively ; but I mean to be underftood within fif: teen leagues. In is afferted from the beft anthorities, that the land carriage betirecu the Potomack and Ohio may be reduced to lefs than swenty miles.
" Such is the progreifion of things in this country, while there was apparently no market for its fuperfluous productions, that
every article has fold extremely well, in confequence of the number of emigrants who have been continually paffing down the Ohio.
" Down from Pittiburgh the country is flat on the banks of the river; but a little ditance from them it is confiderably broken, particularly on the north-weftern fide. Much good land, however, is interfperfed on the fouth fide as far as the approach to the Little Kanhawa, where the nature of the foil feems reverfed, and the good land is then found on the weftern fide upon the Mukingum. There are fome ftrips of rich land upon the Little Kanhawa; but farther up the river, theocountry is broken and fterile, producing fcarce any other timber than the fir tree, or pine and knotty black oaks, which are generally deemed fymptoms of a bad foil. :This tract of bád land extends quite into the mountains in a fouthern direction, and runs fouth-wefterly as far as Great Sandy river, with little or no variation, except on the bottoms of the Great Kanhawa, which are extenfive and rich. The bottoms on the Ohio are every where extenfive and luxuriant. On the weftern fide of the river, the country beyond the rich vein of land on the Mufkingum is only tolerable on this fide of the head waters of the Scioto, which are fucceeded by as fine a body of land as the imagination can paint. This extends confiderably nearer to the Ohio, and running weftward quite to the Miami, now approximates its banks, and difplays in its verdure and variety of majeftic forefts, all that beauty and richnefs which have been fo much celebrated by travellers who have paffed through them. The country on the eaftern fide, except on the banks of the rivers, is indifferent. There is a body of good land on Great Sandy; but leaving that in a fouth-wefterly courfe, ligh, rugged, and broken hills arife, which will hardly ever be capable of cultivation : thefe hills extend between thirty and forty miles, and open into the fine lands of Kentucky.
"The eaft fice of the Ohio, for about ten or twenty miles below Whealing, which is about onc hundred below Pittiburgh, is generally well fettled. There are few fettlements on the oppofite fhore until you come to the Mulkingum, and the country now wears the face of a wildernefs on both fides of the river, there being no habitations worth notice, except at the mouth of the Great Kanhawa, until we arrive at Limeftone.
" Every thing here affumes a dignity and fplendor I have never feen in any other part of the world. You afcend a confiderable difVol.III. $\mathbf{Y}$ tance
tance from the fhore of the Ohio, and when you would fuppofe you had arrived at the fummit of a mountain, you find yourfelf upon an extenfive level. Here an eternal verdure reigns, and the brilliant fun of latitude $39^{\circ}$, piercing through the azure heavens, produces in this prolific foil an early maturity, which is truly aftonihning. Flowers full and perfect as if they had been cultivated by the hand of a florift, with all their captivating odours, and with all the variegated charms that colour and nature can produce, here, in the lap of elegance and beauty, decorate the fmiling groves. Soft zephyrs gently breathe on fweets, and the inhaled air gives a voluptuous glow of health and vigour that feems to ravifh the intoxicated fenfes. The fweet fongfters of the forefts appear to feel the influence of this genial clime, and in more foft and modulated tones warble their tender notes in unifon with love and nature. Every thing here gives delight ; and in that mild effulgence which beams around us, we feel a glow of gratitude for that elevation our all-bountiful Creator has beftowed upon us. Far from being difgufted with man fur his turpitude or depravity, we feel that dignity nature beftowed upon him at the creation, but which has been contaminated by the bafe alloy of meannefs, the concomitant of European education; and what is more lamentable, is, that it is the confequence of her very laws and governments.
" From Lime-ftone to Licking creek the country is immenfely rich, and covered with cane, rye grafs, and the native clover. The cane is a reed that grows to the height frequently of fifteen or fixteen feet, but more generally about ten or twelve feet, and is in thickneis from the fize of a goofe quill to that of two inches diameter; fometimes, yet feldom, it is larger : when it is flender, it never grows higher than from four to feven feet; it fhoots up in one fummer, but produces no leaves until the following year. It is an evergreen, and is, perhaps, the moft nourifhing food for cattle upon earth. No other milk or butter has fuch flavour and richnefs as that which is produced from cows which feed upon cane. Horfes which feed upon it work nearly as well as if they were fed upon corn, provided care is taken to give them once in three or four days a handful of falt, otherwie this food is liable to heat, and bind their bowels. The rye grafs, when it arrives to maturity, is from two feet and a half high, to three and a half, and the head and beard refemble the real rye, and fometimes produce a fmall grain, long and flender, not unlike rye. Whether cultivation would bring it to the fame perfec$\mathrm{tiOn}_{2}$
ion, I can form no idea; it is, however, certain, that it is a very good and valuable grafs. 'The clover is in no refpect different from the clover in Europe, but as it is more coarle and luxuriant. There is a variety of other kinds of grafs, which are found in different places; but I have only mentioned the two former; they being efteemed the moft valuable.
"In order to travel into the interior parts of the State, the route lies acrofs the branches of Licking creek. There are feveral of them which take their rife in the high hills of Great Sandy, and the fpurs of the Allegany mountain; they traverfe a moft delightful country; and form a junction a fmall diftance below the Lower Blue lick.*
The country from the lick to the O hio is confiderably broken, but generally rich, and continues uneven, except on the banks of the river; quite to the mouth of the Kentucky, which is about one hundred and ten miles below the mouth of Licking creek, by water, and feventy above the rapids of the Ohio. Between the mouths of Licking and Kentucky lies the Great-bone lick, which is juftly celebrated for the remarkable bones which are found there, and which gave name to the place.
" After paffing the Blue lick, the foil, if poffible, increafes in richnefs. From thence to Danville is about fifty miles. Lexington lies about midway, and is nearly central of the fineft and moft luxuriant country, perhaps, on earth. From Lexington to Leefburgh is about twenty miles; to Booniborough it is about twenty; the Upper Blue lick nearly thirty. This fquare, which is nearly fifty miles, comprehends entirely what is called firft rate land: Leefburgh lies on the Kentucky, about twenty miles from its mouth by land, and nearly forty by water.: The country between that and the Ohio is broken, but rich, though it is not deemed a valuable body of land. The Kentucky is bounded every where by high rocky precipices, that are generally two hundred feet and upwards perpendicular, and which make its paffes difficult. Few places on it have any bottom land, as the rock rifes moftly contiguous to the bed of the river; which confinement; after heavy rains, renders it very formidable from the impetuofity of its current. On afcending the banks of this river, the land on either fide is equally good for fome clifance above Boonfborough; but adjacent to the mountains from whence the river rifes, the co intry becomes broken, flerile, and of

[^26]little or no value. Boonfborough lies on the Kentucky, about fixty miles above its mouth by land, and about one hundred and thirty by water. From Leefburgh down the river on the fouth fide, for about ten or twelve miles, the hills are confiderably high and fteep; but when you pafs the waters of Drinnon's Lick creek, you fall into a body of good champaign land, which extends, with little variation, to the rapids of the Ohio. From Leerburgh to Danville, the country for the firft twenty miles is of anferior rate of land for this country; but farther on, your get into the rich country I have mentioned, comprehended within the fquare of fifty miles.
${ }^{6-}$ Large bodies of good land lie on every fide of Danville for twenty miles and upwards; but in the courfe from thence to the rapids of the Ohio, on the waters of Salt river, which takes its name from a falt fpring called Bullit's lick that is on its banks, abovt twenty miles from the mouth of the river, the country is in fome places broken into ridges of hills, which are in general good land, but not well watered. As you approach the rapids it becomes more level, better watered, and the foil more fertile. The country of Beargrafs is beautiful and rich; as, indeed, isthe land on Goofe and Harrod's creeks. In the fork of the Ohio and Salt river, which form a junction about twenty miles below the rapids, the country is flat, and interfperfed with fmall lakes or ponds, occafioned by the extreme lownefs of the banks of the Ohio in this fork, which, when flooded, overflows the country, and the water fills thefe ponds periodically, or as often as thofe inundations happen, and which are frequent from December until April.
" The rapids of the Ohio lie about feven hundred miles below Pittfburgh, and about four hundred above its confluence with the Miffifippi. They are occafioned by a ledge of rocks that ftretch acrofs the bed of the river from one fide to the other, in fome places projecting fo much, that they are vinble when the water is not high, and in moft places when the river is exremels low. The fall is not more than between four and five feet in the diftance of a mile; $f$ that boats of any burthen may pafs with fafety when there is a flood; but boats coming up the rivar muft ur'oud, which inconvenience may veiy cafily be removed by citti,g a cana from the mouth of Bear$g_{\mathrm{a}}$ ans, the upper fate of the a, ods, to telow the lower reef of rocks, which is not quie two miies, and ine country a gentle declivity the winule way.
e" The fituation of the rapids is truly delightful. The river is full 2 mile wide, and the fall of water, which is an eternal cafcade, appears as if nature had defigred it to fhew how inimitable and flupendous are her works. Its breadth contributes to its fublimity, and the continually rumbling noife tends to exhilarate the fpirits, and gives a cheeffulnefs even to fluggards. The view up the river is terminated at the diftance of four leagues, by an ifland in its center, which is contrafted by the plain on the oppofite fhore, that extends a long way into the country; but the eye receding, finds new beauties; and ample fubjects for admiration in the rifing hills of Silver creek, whick ftretching obliquely to the north-weft, proudly rife higher and higher as they extend, until their illumined fummits imperceptibly vanifh. Clarkville, on the oppofite fhore, completes the profpect, and from its neighbourhood, and from the fettlement forming upon the officers land, a few years muft afford a ćuitivated country, to blend appropriate beauty with the charms of the imagination. There lies a fmall illand in the river, about two hundred yards from the eaftern fhore; between which and the main is a quarry of excellent fone for building, and in great part is dry the latter part of fummer. The banks of the river are never overflowed here, they being fifty feet higher than the bed of the river. There is no doubt but it will foon become a flourihing town; there are already upwards of two hundred good houfes buidt. This town is called Louifville.
" In- leaving the rapids in a fouth-wefteriy direction, the country is fiat, it bordering upon the country I have defcribed in the fork of the Ohio and Salt rivers. After paffing the main branch of the Salt river near Bulit's Lick, ten miles diftant, in the fork of the north and fouth branches, the country becomes broken and hilly, but between which and the Cumberland road, that leads from the upper parts of Kentucky, there is a confiderable extent of fine land; but travelling a few leagues farther fouthward, you arrive at extenfive plains, that exiend upwards of one hundred and fifty miles in 2 fouth-weft courfe, and end only when they join the mountainous country. Sume few clumps of trees, and a grove here and there, are the on. $y$ obffructions to a boundlefs horizon. It is pleafant to behold the deer bounding over tie fcragsy flurubs which cover the earth. While the fetting fon gilds thofe extenfive piains, the mild breezes of 2 fumme:'s eve, playing upon the enraptured tenits, fotiens the heart to love and ficmichip. Unpericived, upon tome eminence, you may enjoy the $\mathrm{i}_{\mathrm{f}} \mathrm{o}$ ts of wild anui.a.s, wuine he.e s.ve uncon-

## GENERAL DESCRIPTION

cerned lords of the field. Heavens ! what charms are therem liberty! Man born to enflave the fubordinate animals, has long fince enflaved himfelf. But reafon at length, in radiant fmiles, and with graceful pride, illumines both hemifpheres; and Freedom, in golder plumes, and in her triumphal car, muft now refume her long loft empire.
" We have now arrived upon the waters of Green river; at the mouth of which, and between that and the Ohio, lies Henderfon's grant of tweive miles fquare. The plains extend beyond the head waters of this river quite into the limits of North-Carolina; but at the mouth, and for forty miles above, there is' a large proportion of good land, particularly upon Panther creek. From the mouth of Green river up the Ohio to Salt river, the land upon the banks of the Ohio is generally fertile and rich : but leaving its banks you foon fall into the plain country, which is confidered as.little better than barren land; however, it is moft likely that it will prove excellent for fheep to feed upon, the climate being nearly the fame as that of Spain, where the fineft wool in Europe is produced. And though the land is not reckoned valuable in this country, on account of its comparative ferility, yet it is of a fuperior quality to great part of the foil in the lower parts of Virginia, the Carolinas, and Georgia. It abounds with hazel, which, it is well known, never grows kindly in a poor foil.
" The native ftrawberry is found in theie plains in the greateft abundance, as are likewife plums of different forts; and, if we can form any idea of the native grape that grows fpontaneoully here, and what the fame foil is capable of producing when they are cultivated, it would appear that no climate or foil in the world is more congenial to the vine, for $I$ have never tafted more delicious grapes; and it is the opinion of fome judicious foreigners, who have vifited thefe genial regions, that as good wine as can be made in any part of the globe, might be produced from the native grape properly cultivated. There is nothing more common than to meet with a pleafant wine made here by the fettlers, who know nothing of the ufe of rats, or the degree of fermentation neceffary to the perfection of the art of wine-making. But I flatter myfelf fome progrefs will be made in this bufinefs, as feveral fereigners have long had it in agitation to undertake it.
" The country between Green and Cumberland rivers is generally rich, and finely watered. There is in it a moft valuable lead mine,
and feveral falt fprings; and between Green and Salt rivers there are two of a bitumen, which, when analyzed, is found to be amber. But, fo much do we ftand in need of chymifts, and mineralifts, that we remain ignorant of the properties and value of many foffls which have been difcovered; and many continue unknown, I apprehind', from the want of curiofity of men, whofe only object feems to be cultivation, and the fcience of government. Perhaps thefe are the moft effential to the happinefs of mankind in the wild ftate which this country is in. Arts appear to follow population. Neceffity has been the mother of invention, it is true ; but from the attainment of that perfection to which we have arrived in arts and philofophy, wifdom and fcience mutt go forward ; and it is phyfically impoffible for man again to degenerate to barbarifm.
"When the greateft merit confifts in the exercife of the moft ufeful and appropriate talents, I think it is likely that the ingenuity of men will feel a more lively ftimulus to the exercife of invention from the love of fame, the loye of mankind, and regard to their own dignity, than it ever yet experienced from neceffity. While odious diftinctions exift, and men are rewarded in proportion to their fervility, human nature muft be robbed of half its manlinefs, and confequently men will be flothful. How many drones do we obferve in every part of Europe, who feed upon the induftry of the neceffitous, or who work only as it is neceffary to their exiftence! Such have been the effects of the factitious duties of man in that hemifphere, thet every thing has become perverted; and governments, inftead of fecuring happinels to men, have only tended to aggrandize individuals, and thus has flowed in, that debafement of character which has mari:ed half the inhabitants of Europe with little more dignity than the monfters of the foreft.
" Cumberland river rifes among the mountains, confiderably to the north-eaft, aid, after its feveral branches have joined it, runs a long way fouth, and enters the limits of North-Carolina. After a courfe of half a degree within thofe limits, it turns to the north-weft, and empties itfelf into the Ohio, at fome diftance above its junction with the Miffiffippi. The Tenneffee runs into the Ohio, not a long way below the mouth of Cumberland. The. Tenneffee is the moft important of the fouthern branches of the Ohio. Its northern fork, called Holfton, rifes in the country of the fame name, and, after paffing through Nolachucky, is joined by the main or fouth branch. Thi: branch rifes in the remote parts of the State of Georgia, and, after travering's the borders of the Che-
rokee country, is joined by the Holfon branch, when it is called the Tenneffe: from thence ty runs fouth-wefteriv, quite through the limits of North-Carolina, and approaches the head waters of the Mobilc, which empties itfelf into the gulf of Mexico. In its courfe, it is very rapid thus far : from the material declivity of the high country, which from motatains gradually fin' into a flat, there is a number of falls, but none of them confiderable. It now turns again to the northward, and from its lazy motion it is obvious that there is very little fail of water from this to the Ohio. This turn conftitutes what is called the Great Bend of the Tenneffee, or Mufcle Shoal, from the number of fhoals in this part of the river that are covered with thefe fhell-fifl. The river is here from two, to three and a half miles wide. Its importance will confirt in its being the moft convenient inlet from the upper parts of Virginia and the Carolinas to the Miffiffippi, it being navigable for boats of forty tons burthen from Holfon, the falls excepted, where carrying places will anfwer until there are canals made, which can be done with very little expence.
" Holfton is a narrow ftrip of country, furrounded on every fide by mountains; but there is a paffage which winds through them, fo as to admit of a paffage this way, and down the river, without any difficulty of bad roads whatever. 'Should you continue gour route by land in the road to Kentucky, you would have feveral mountains to pals, and at leaft two hundred miles of bad road.
"Afteryou leave the plains which extend into the Cumberland country, in your courfe to the Tenneffee, the country is fomewhat broken, but moftly rich. Great part of the land lying between thefe rivers and the Ohio, and between Cumberland and Green rivers, was in military grants, made by Virginia to their officers and foldiers, and is efteemed a valuable fituation for its proximity to the junction of the Ohio and Mifffippi. Their grants extend as low on the MifIiffippi as the partition line between Virginia and North-Carolina: all of which is a beautiful country : and the banks of the river, which are very high, prevent it from overfowing, which is not the cafe a great way lower down.
"The land in the Great Bend of the Tenneffee is very fine; but when you approach the country of the Chickafaws, it becomes broken, light, and fandy : and, as you extend to the fouthward, I have been informed the foil grows fill lighter, and, except.a large body of good land on the Miffifippi, and the bottoms of the feveral ftreams that run into the Gulf and the Miffiffippi, it is little better than Weft-Florida,
which has been celebrated in Europe for its fertility; but fo fine a country have I been endeavouring to deferibe to you, that, judging by comparifon, the people in Kentucky and Cumberland look upon that as an indifferent foil.
" In ten years more, perhaps, a fettlement will be formed fufficiently populous to become a federal ftate in the country into which I ain now going to advance ; the limits of which, from the confluence of the Miffifippi and Ohio to Detroit, is between five and fix hundred miles; and taking the medium diftance between Pittiburg and the mouth of the Ohio, acrofs to the Miffiffippi from the Ohio, is very litile lefs. The inhabitants of this immenfe diftrict do not, incliding French; amount to five thoufand. The country in this fork (if I may fo call it) is various. Immediately in the fork the land is flat, and liable to overflow; but as you advance on either river the banks rife, and the country expanding, difplays a luxuriant foil for a long diftance above the Wabafh on the Ohio fide, and quite to the Illinois on the Miffiflippi fide, which is about two hundred and thirty miles above its junction with the Ohio, and twenty above the mouth of Miffouri. This country lies nearly in the fame parallel of latitude of Kentucky. From the mouth of the Wabafl, the bottoms on the Ohio are extenfive and extremely ${ }^{\circ}$ fertile, as is the country from thence to Poft St. Vincent ; but towards the rapids of the Ohio, and beyond the bottons of this river; the country is confiderably broken, and the foil in fome places light and indifferent. After leaving Poft St. Vincent, in the route to the Illinois country, you foon fall into thofe extenfive plains which have been defcribed in fuch glowing colours by Hutchins. This is certaialy a beautiful country, and the immenfe number of deer, elk, and buffalo, which are feen grazing in thofe natural meadows, renders them highly enchanting. The air in this climate is pure, and the almoft continual unclouded iky tends not a little to charm the fenfes, and to render even wildnefs delightiful. The country betweenjPoft St. Vincent and Kafkalkias is flat and plain, with little variation. As you afcend the Ilinois river the foil grows more fertile, and on either fide you find immenfe forefts.
c Detroit lies between lat. $42^{\circ}$ and $43^{\circ}$ upon the ftraights which communicate between laker St. Clair and iake Erie, confiderably to the weftward of Pittburgh. The country lying between them is not remarkable for any thing but being a wildernefs. The foil and clif mate are fuch as would entitle it to the reputation of a fine country in any part of Europe, except in winter, when the froft is extremely feFow. II.

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vere $_{2}$
vere, but leis intenfe than that of Canada. Qiebec lies near!'y in the fame latitude as Paris, and from the defeription which the Emperor Julian has given of the wipters he quartered there, during his command in Gaul, there feems to be little difference between the winters of France at that period, in refpect to cold, and the prefent winters of Canada. Perhaps the extent of continent lying to the north-wef, and the immenfe lakes of frefh water which cover it, will pot admit of the climate of that part of America being fo rapidly meiiorated, as the climate of Europe has been by cultivation. However, it is certain, that as the country has been more opened in America, and thereby the rays of the fun have acted more powerfully upon the earth ${ }_{2}$ thefe bencfits have tended greatly already to foften the winter feafon: fo that peopling Canada, for which we are much obliged to you, is a double advantage to $u s$. Firft, it is fetting and populating a country, that muft, fooner or later, from the natural order of things, become part of our empire, and immediately meliorating the climate of the Northern States. But to return to Detroit. Our courfe from thence to the head waters of the Miami is fouth-wefterly. The country for fome diffance is flat, and the foil heavy and damp; but, upon the waters of thofe rivers it is beautiful, and abounds in the gifts of nature.
"The communication between lake Erie and the Ohio by water this way, will be up the fouthern branches of the lake, and by fhort paffages you arrive upon the waters of the Great Miami, Scioto and Mufkingum, which are navigable when flooded. It muft be obferved, that the rivers I have been mentioning are not navigable, throughout the year, for boats of above ten or fifteen tons. Great part of the country between this and the Wabath is champaign; but in travelling towards the rapids of the Ohio you pafs confiderable plains, and then fall into a broken and hilly tract of poor land, that continues with little variation until you approach the rapids, when all the variety and charms which this river produces, prefent themfelves again. From Detroit to the rapids is nearly four hundred miles.
"The rapid population of the weftern country has not only afto." nified America itfelf, but it muft amaze Europe, when they enter into the views and increafe of this growiag empire. The firf fettlement on the weftern waters by the Englifh was in 1760, and, under the influence of almoft continual Indian wars, that fettement (I am now fpeaking of the upper fettlement on the Ohio) now contains
not lefs than an hunded th ufand fouls. The State of Kentucky did not make a permanent fettement befor: 1780 , which now contains not lefs than an hundred :hourfand. The Cumbertand fettlement began about this time, but i: was at leaft three years afterwards before there was fecurity girea to tha ettlement, and there are fettied about fifiy thoufand fouls more. Befides the fettlement in the great bend of the Teaneffict, which nill join them in their feparation from North-Carolim, the fetilement of Nola Chucka and French-broad, made on the branches of the Tensefice in the years $1782,17 \delta_{3}, r_{7} S_{4}$, and $r_{i} S_{j}$, contzin between thírty and forty thoufand fouls; feveral other feetlements are forming at the Iron banks on the Mififippi, befides thefe tpoa the reftern fide of the Ohio, which, including the inhab:-ants at Pofl St. Vincent and the Kafkafkias (I judge from the beft itformation) do not fall flort of fifty thoufand. I have not mentioned the numiser in the fettlement of the great bend of the Tenrefife, 35 I have not been able to collect any iatisfactory information reipecting them: but I fuppofe the aggregate pumber of fouls in the weftera country is very little, if at ail, fhort of four hundred thoufind, including the fet lements of Holiton, Clinch river and Powel's ralles, which, taken together, may amount to feventy thomfand fouls, and which are properly on the weftern waters.
"The fettlements on the weftern fise of the Ohio have been freatiy barafid and retarded by the Irdiam mar, which has continued with little variation fince $r_{7} 5_{5}$; but the vigorous meafures wi:ch their depredations have obliged Congrefs to adopt, muft s:d with a permanent peace, or in a fex years tiveir provecations will lead to the extirpation of the whole of the Miami and Illinois tribes. Their prowefs and determined refolution wil, no doubt, confiderably annoy our army, which, having been mofly recruited from the Atlantic country, are not acquainted with fach dexterity and courage, or indeed babituated to their manner of fighting: but our numbers have grown too confiderable; for defeats only invigorate our meafures, while the lofs of every mana, to nations whofe population is fo extremely tardy is that of the farages of America, is a lamentable confideration.
"In the peopling this country mew Smates will naturally arife, and thns, in contemplating the continent of Aserica, we may form an adequate idea of what will be the magnimede of its federal empire. The upper fettlement on the Ohio, though more populous than the
fettlement of Cumberland, is not likely to become a feparate State fo foon. The greateft part of it is within the limits of Pennfylvania, and not fo remote from the capital of that State as the Cumberland fettlement is from the capital of North-Carolina. The intercourfe is continual, and the productions of the country, or at leaif their cattle, may be driven to Philadelphia, \&c. as I have obferved before; and their influence is not fufficient to procure them an act of feparation, fhould they defire it. In the care of North-Carolina and Cumberland there is little or no communication between them, nor is it to be expected that it ever can be the intereft of either to continue the connection; therefore it is moft likely, that diftrict will follow Kentucky in the links of the great federal chain.
"I muft now proceed upon conjecture, as there are no definite limits prefcribed by the federal governinent for the lines of demarkation, which are to be the different boundaries or limits of new States that will arife. However, it is eafy, by confulting natural boundaries, to form a pretty juft idea where will be their different divifions. I have already remarked, that Kentucky and Cumberland are divided by a line in latitude $36 \frac{10}{2}$, which will be the boundary of Cumberland to the nortitward. The mountains will moft likely be its eaftern limits; its fouthern limits will be, either the partition line continued between North-Carolina and Georgia, or it will run foutherly, uitilit frikes that ridge of hills which divides the Tenneffee country from the country of the Chàktaws; thence a due weft courfe to the Mifififippi, or following fome one of thofe branches which rife in thofe hills, and puriuing its courfe to that river. This will comprebend a diftrict of country of nearly two hundred miles in length from eaft to weft, and nearly one hundred and fifty from north to fouth. I cannot ipeak here with accurary, as it is that part of all the weftern country which is leaff known.
"The country upon the head waters of the Tenneffee, ftands next in the lift of advancement. This country includes the fettlement of Holfon, the fettlement of Chinch, and the fettlements of Powcl's valley, which are part in Virginia, and part in North-Carolina ; befides the fettlemeats of Noia Chucka and French-broad. This laft fettlement will be extended in the borders of the Cherokee country, which will bind this State to the fouthward. Its weftern boundary will be Cumberland mountain, which will divide it fiom the States of Kentucky and Cumberland. Fs northern limits will be the ridges of hills that divicie the maters of the Tenneificeand the Great Kanhawa,
and its eaftern boundary will be the high hills that divide the eaftern from the weftern waters in this part of America, which are called in Virginia the North mountains, and which continue their courfe through the Carolinas. This State will be in extent upwards of two hundred miles from north to fouth, and the average width from caft to weft neariy an hundred and fifty.
"This country, has mountairs on every fide but the fouth-weft, and is interfperfed with higi hills in mof parts of it. The valleys are extremely fertile, and every where finciy watered. The climate in the upper part of tine country is not fo temperate as that of Kentucky, thougi it iies in the fame latitude, which is owing to the neighbouring mo:ntains. IIary parts of this diatict are well fettled, and cultivation was brought to fuch coníderable perfection, that the inhabitants had it in contempiation to become independent feven years fince, under the diftinction of the State of Franklin. Its population is not only confderable, but its refpectability in evcry confideration will very foon intitle it to the rank of a diftinct Staie; though it may require fome time to effect a unity of fentiments, and a confolidation of its various and detached fettiements into that order which the organs of government require.
"Before I leave this fie of the Miffinppi, I mult beg lenre to digrefs, and fiew what will be the probable deftination of the Indian nations, who live between the fouthern limits of the country I have been mentioning, and the Floridas, and which may amount to thirteen thoufand, inclufive of men, women, and children.
" The Cherokes are about two thousand five inuadred; the Creeks three thouiand fire hundred; the Chackiars are abont inx thoufand; and the cifferent vagrant nations may amount to a thoufind more.
"The fettlements making in the ufper parts of Georgia, upon the fine lands of the Oconce and Okemulgee rivers, will in a very few years bid defiunce to them in that quarter. The Georgian troops have already defeated them, and forced them to be quiet. The fettlement of Erench-broad, aided by Holfon, hare nothing to fear from them; and the Cumberiand is too puiifant to apprebend any danger. The Spaniards are in poffinion of the Flotidas, how long they will remain fo, muft depend upon their moderation and good manners, and the fettlements at the Natchez and above, which will foon extend to the fouthern boundaries of Cumberland; fo that they will be completely caveloped in a few rears. Our pecp!e will continue to in-

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 GENERAI DESCRIPTIONeroach upon them on threc fides, and compel them to live more d $\alpha-$ meftic lives, and affimilate them to our mode of living, or crofs to the weftern fide of the Miffiffippi.
"The Genafee country lics upon the waters that run into lake Ontario, and it is expected will be peopled as foon as the Six Nations of Indians are peaceable. This is a very rich and fertile tract of country, lying in the remote parts of New-York, bounded by Pennfylvania to the fouth-eaft, by the lakes to the north-weft, and high hills and a wildernefs from the Ohio country. I have hitherto omitted taking notice of it, as not properly belonging to the weftern country; but as I am going to proceed to partition the country weft of the Ohio into feparate States, I thought it moft confiftent to keep up the chain of connection; and without mentioning this diftrict, there would be a chafin between New-York and the uppermoft State upon the waters of the Ohio.
" Let us now return to the Olio. That ridge of hills which divides the waters of this river from that of the lakes running fouthwefterly, until they run north-weiterly, and divide the fources of the Wabalh and Illinois rivers from the fouthern branches of the lakes, will moft likely mark the linits to the weft, of the upper States upon the weftern fide of the Ohio. The ridge of hills which divides the waters of the Allegany river from thofe of the Geariee, will bound it to the north, the Allegany river and the Ohio to the eaft, and tlee Mufkingum to the fouth. The next sia:e, I fhould form between the Mufkingum and Scinto, the Ohio, and that ridge of hills between the fources of theie rivers and thofe of lake Erie. The third between the Seioto, the Great Miami, the Ohio, and the fame ridge of hills. The country lying between the Miami, Wabaih, the Ohio, and the fame hills, I would pat into another State; and the country lying between the Wabafh, Ohio, Milfifippi, and Illinois rivers, I, would eftablifh into a fifth State.
" Between the mouth of the Illinois river and waters of lake Michegan, lies a diftrict of country equally fertile with any part of the weftern country ; but in the progreffion of our fettlements, it will be fome years before any fettlement can be formed there, except in the fork of the Miffiflippi and Illinois, which may be ereited into a
$7^{\circ}$ State, by running a line from a point, latitude $42^{\circ} 30^{\prime \prime}$ upon the Miffifippi, in fuch a direction as to frike the head branches of the Illinois. But it is moft likely that the country on the Miffifippi and Miffouri will be fettled before this diftrict, though it is confidered

26 the empire of Spain. However, I will not be fo indecorous as to parcel out the territorics of other nations; it is fufficiently prelunutuous to have gone fo far as I have.
"I have now marked out the imaginary boundaries of fix new States, exclufive of thufe on the eaffern fide of the Ohio, the Ge nafee fettlement, and without including the country between the northern limits of Kentucky and Pitttburgh, or the country between Niagara, Detroit, and the fources of thofe rivers which run into the Ohio.
" The upper fettlement on the eaftern fide of the Ohin, will moft likely follow the Cumberland and Holfon in its ind-jendence. In peopling the new States, I conclude the lowermoft will be firft fettled, and confequently the firft to be admitted into the federal government. The diftrict of country that will be lant fetted, in ail probability, between the Ohio, the Lakes, and the Miffflippi, to the fouth of St. Anthony's fall, is perhaps that which lies between Niagara and Detroit, and extending to the ridge of hills which divides the waters of lake Erie and Ohio, by reafon of its damp and cold foil. The furrender of the forts of Niagara and Detroit, which I underftand is about to be done, may increale the fettlements upon the borders of lake Eree; but I think it is not likely that unhofpitable clime will find inhabitants, while the genial regions of the Mirfiffippi are in a great meafure uninhabited.
"It is next neceffary to take notice how, and in what probable time thefe States will be inhabited. The firft fettlement upon the Ohio, and the progrefs made in agriculture, were extremely tardy. But it is neceffary to recollect, that America was not only in an intfant flate at the conclufion of the war in 1763 , hut that the continual wars with the Indians greatly retarded the progrefs of that fettlement; and if the fame obfructions have been given to the fettlements on the weftern fide of the Ohio, it is equally certain that the exhaufted condition of the finances of the United States, until within a year and a half paft, did not permit them to take thofe vigorous meafures neceflary to their tranquillity; and that permanent fettiements on that fide of the river, and the increafe ot the neceffiaries of life, which are now in greater abundance in the weftern country than in any other part of America, will enable them to fupport therr fituation with infinitely more eafe than when we were obliged to bring almoft every thing for ufe over the mountain.
" I bave
"I have eftimated the number of fouls on the weftern waters at four hundred thoufand. I fhould fuppofe from the difpofition to early marriage, which is general, and the extraordinary fecundity it is obferved every where prevails, with the addition of the emigrants who may be expectan ficm the eaftern States, that the inhabionts will double once in fifteen years for the next fixty years to ine at leaft, which in the firft fifteen years will be eque! is weng four or five of thefe States; and I think we may exnef . ee, at the end of thirty years, the whole country $l$ have vecin celcribing inhabited.
"It is impoffible that we can experience any thing like poverty, for no country, perhaps, upon the globe is fo rich in the com:forts and necefiaties of life. As to wars, we can have none after a few years more are paft. The Spaniards may put us to fome inconvenience for a few years to come; but in doing this, they will not only rifk the lo's of New-Orleans, but the whole of Louifiana, which they confider as the key to Mexico. Thus fecured from wars, and the inland navigation of the country not fubjecting us to material loffes in that butinefs; with the propenfity to early marriages, produced by the fimplicity and innocencc of youth, tutcred under the pure maxims of virtue and reafon; it cannot be confidered as a fanguine calculation, when we add the additional confideration of the probable number of emigrants we may/receive, that our population will double once in fifieen jeare;
"In the weltern territory is found all the variety of foil and climate ncceffary to the culture of every kind of grain, fibrous plants, corton, fruits, vegetables, and all forts of provifions. The upper fettlements on the Ohio produce chiefly wheat, oats, barley, rye, Indian corn or maize, hemp and flax. The fruits are apples, pears, cherries, peaches, plums, frawberries, rafherries, currants, goofeberries, and grapes; of culinary plants and vegetabies, there are turnips, potatoes, carrots, parfnips, cymibiline or fquafh, cucumbers, peafe, beans; afparagus, cabbages, brocoli, celery and fallads; befides which there are melons and herbs of every fort. The provifion confilts of beef, pork, mutton, veal, and a variety of poultry, fuch as ducks, Mufcovy duck's, turkejs, geefe, dunghill fowls, and pigeons. The fuperfluous provifions are fold to the emigrants, who are continually paffing through thofe fettiements in their route to the different diftricts of country, which I have enumerated. Some confiderable quantities of fpirits diftilled from rye, and likewife cy-
der, are fent down the river to a market, in thofe infant fettlements where the inhabitants have not had time to bring orchards to any perfection, or have not a fuperfluity of grain to diftil into fpirits. The bcef, pork, and flour are difpofed of in the fame way. The flax and hemp are packed on horfes and feut acrofs the mountains, to the inland towns of Pennfylvania and Maryland, and, as I hinted before, in a few years, when grazing forms the principal object of thofe fettlers, they will always find a market for their cattle at/Philadelphia, Baltimore, and Alexandria.*
"Thefe fettements might produce a confiderable quantity of fugar, but hitherto what they have made has ferved for little more than home confumption, as every part of the back country, from latitude $42^{\circ}$ 掊 $3^{6^{\circ}}$ and upon the Miffifippi, as far north as latitude $45^{\circ}$, produces an abundance of the fugar maple tree as would be equal to furnin fugar for the inhabitants of the whole earth; and to fend it to any of the market towns on the Atlantic is too far to be profitable, until the canals of the Potomack fhall have been finifhed. The country produces alfo all the pot herbs which are common in Europe: feveral kinds of nuts grow in the forefts, fuch as chefruuts, hickory, and black walnuts. The mountains, hills, and uninhabited parts abound in deer, wild turkeys, and a lpecies of groufe, called by the Americans promifcuoufly partridge or pheafant. There is an abundance of wild fowl, as, indeed, is the cafe in every part of the weftern country.
" Linen and woollen cloths, leather, and hats, for home confumption, are manufactured with confiderable fuccefs. Thé two firft articles are only made in families for their own ufe; but the latter are made by men of profeffion in that bufinefs, and are of a quality that would not difgrace the manufactures of Europe. Blackfiniths work of all forts, even to making fire arms, is done there ; as is alfo cabinet work, wheel-wright, mill-wright, houfe carpentry; joinery, floe-making, Sc. ke. in fhort, all the trades, immediately neceffary to the promotion of the comforts of new fettlements, are to be found here.
" After paffing to the fouthward of latitude +0 degrees, the climate becomes favourable to the culture of tobacco. It will, no doubt, grow farther to the north; but neither its flavour is fo aromatie, or the crop fo certain or productive. Indeed, the farther fouth tobacco grows, generally the finer its quality : hence it is, that the

> To which may te added Washricios:

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faegars of Cuba are fo much admired for their peculiar fcent, and the Oroonoko for its mildnefs. However, this is of little confequence to any country, as it is certain no cultivation is fo pernicious to the foil, and of fo little real advantage to the cultivator. It continually impoverifhes the land; and every additional feafon, inftend of producing riches to an eftate, tends to beggar it : every veftige of its growth is mifery and devaftation, and no foil, but one as prolific as that of the Nile, would be capable of producing it for any length of time, according to the fyftem which has been purfued in Virginia and Maryland. However, the whole of the Ohio and Miffilippi country below latitude 40 dcgrees, is perhaps better adapted to produce tobacco, in quantity, than any other country upon the face of the globe.
" Kcntucky produces, befides tobacco, all the different kinds of grain that I have defribed in the upper fettlement; all the frite, with the addition of apricots and nectarines; thefe and peaches grow here to very great perfection, particularly when planted upon a light foil, which flould always be the cafe when it can be found; but howccer extraordinary it may appear, it is not often the care in this diftrict of country.
"Thöfe culinary plants, vegctables, \&c. I have enumerated above, are produced in the whole weftern country. In fome parts they grow to greater perfection than in others, as in this the cucumber, turnips, peas, and many others are much finer than I ever faw them any where befide. The cantilope melon is only to be cqualled by thofe in Perfia. We are not at the trouble and expenfe of forcing; every thing put into the ground of the vegetable kind grows in a moft wonderful manner.
"The foil is uncommonly favourable to hemp and Indian corn. I have known twelve hundred weight of the former produced from an acre of ground, and as much as one hundred bufhels of the later. This bas not only been done from an uncommon fertile fpot, but there are large bodies of land adjoining, which are equally prolific. I believe that were I to mention upon an average the produce of the Whole country, it would be found to be nearly as follows:

Oats, ditto . . . . 50 bufhels.
Clover and timothy grais, ditto . . 25 cwi.
" Befides hemp and flax for manufacturing, cotton is cultivated with confiderable fuccefs, particularly in the fouthern parts of the State and Cumberland; and no doubt in a ferv years, when our fettlements extend to the Natchez, cotton will be produced in as great perfection as in the Eaft or Weft-Indies. No foil or climate can be more congenial to this plant than the regions on the lowermoft parts of the Miffiffippi. We have in our power to promate the culture of filk alfo. The mildnefs of the climate, and the great quantity of mulberry trees, which are every where interfperfed in our forefts, render this matter extremely eafy; but how far this will be politic, when the ufe of filk is going out of fafhion, is a matter that requires fome confideration. Cotton has fupplied its place, and its fuperior excellence I apprehend will always make it a more profitable manufactory.
" The growth of wcol will form an important confideration with us. The plains I have defribed extend quite to the mountains, fo that fleep here may have every advantage which the flocks of Spain enjoy. If we can form an idea from the famples of wool produced in many parts of the country, we may conclude that our moff fanguine expectations will be fully anfwered.
" The buffaloe is nearly driven out of Kentucky ; fome are fill found upon the head waters of Licking creek, Great Sandy, and the head waters of Green river. Deer abound in the extenfive forelts; but the elk confines itfelf moffly to the hilly and uninhabited places.
" The rapidity of the fettlement has driven the wild turkey quite out of the middle countrics, but they are found in large fiocks in all our extenfive woods.
" Amidit the mountains and broken countries are great numbers of groufe; and fince the fettlement has been eftablifhed, the quaih, by following the trail of grain which is neceffarily feattered through the wildernefs, has migrated from the old fettements on the other fide the mountain, and has become a conflant refident with us. This bird was unknown here on the firft peopling of the country.
"There is a variety of wild fowl in every part of this State, particu'arly teal, and the fummer dack. The heter breeds with us: its
incubation is always in temperate climes, which is the reafon of its being called the fummerduck.
" The productions of Cumberland are nearly the fame as thofe of Kentuckiv. The quality of tobacco is perhaps fomething better; but the climate being confiderably warmer, it is not fo favourable to wheat and barley, nor does grafs grow there fo luxuriantly as with us.
" The country below Cumberland foon becomes warm enough for indigo and rice; and perhaps thefe articles in a few years will be cultivated on the Miffiffippi with as much fuccefs, if not more, than they ever were in South-Carolina or Georgia; particularly the former, as the foil on the Miffifippi is infinitely more luxuriant than any in the Carolinas. Some eflays were made in this bufinefs previous to the late war, but the object was abandoned on the deftruction of the fettlement made below the Natchez.
" Oranges, and other tropical fruits, grow at the Natchez, and fome diffance above, to confiderable perfection. There are a variety of nuts that grow both in Kentucky and Cumberland, fome of which are common to both; the moft remarkable of them is the Pacane; all of which have been noticed both by Carver and Jefferfon. Grapes, plums, goofeberries, and ftrawberries, grow alfo fpontaneoufly in the fouthern parts of Kentucky, and in moft parts of Cumberland.
"The produce of the weftern country will be nearly the fame in the fame parallels of latitude throughout; fo that comparing my imaginary States with the fettled country fouth-eaft of the Ohio, you will be able to form a juft idea of what they will be capable of producing. But to comprehend the object of the commerce of this country, it is firft neceffary to contemplate it, abounding in all the comforts of life, limited in its variety of climate only by what is not defirable; with a foil fo prolific, a navigation fo extenfive, and a fecurity fo permanent, from being inland, that it feems this vaft extent of empire is only to be equalled for its fublimity, but by the object of its aggrandizement.
" Provifions, tobacco, and raw materials, will conftituterthe firft articles of our trade. Such a quantity of beef, pork, bacon, butter, cheefe, \&c. \&c. may be furnifhed from this country as will one day, no doubt, furnifh the Weft-India iflands, and afford relief to the miferable Chinefe, whofe fcanty portion of rice is only fufficient to keep
foul and body together. Our mountainous countries muft always prove excellent ranges for herds of cattle ; the grafs, in the fummer, affording fufficient food to fatten them, without the expenfe of cultivated meadows, and the winters are feldom fo fevere as to require any other food than the cane and pea-vine.
" The navigation of this country has been much talked of. The diffance from one place to another has been computed with fome degree of accuracy, and the various experiments which bave been made confirm the opinion that its difficulty is merely imaginary.
"The common mode of defcending the fream is in flat-bottomed boats, which may be built from fifteen to five hundred tons burthen. But, as far as 1 have been able to judge, I hoould fuppofe, that about fifty or fixty tons burthen would be the moft convenient, wieldy, and confequently fafe, particularly when the waters are very high ; for in fuch cafes the rapidity of the current makes it difficult to manage an unwieldy mafs with facility. Thefe boats are built of oak plank, with a certain proportion of breadth to their length, i. e. nearly as twelve feet to forty ; which will be a boat of nearly forty tons. They are covered or not as occafion may require. The object is to build them as cheap as poffible, for their unwieldinefs prevents the poffibility of their returning, and they can only be fold as plank.
"Several of thefe boats fetting out together, let us fuppofe five, ten, fifteen, or twenty, of fixty tons burthen each, which would require each fix hands to navigate them; ten boats then of fixty tons each will employ fixty hands, which will be equal to navigate up the ftream three boats of five tons each, and would be more than fulficient to bring back the cargo that the produce of the ten boats would purchafe; as the articles we export are grofs and bulky, while we want only in return fuperfine goods: the coarfer goods of every fort will always be manufattured in the country. We alfo make our own falt, fugar, fpirits, malt liquor, and fhall foon make our own wine. Thefe boats muft be worked up with feam and fails.
"The invention of carrying a boat againft the ftream by the influence of fteam, is a late improvement in philofophy by a Mr. Rumfeg of Virginia, whofe ingenuity has been rewarded by that State with the exclufive privilege of navigating thofe boats in her rivers for ten years; and as this grant was given previous to the independence of Kentucky, the act of feparation guarantees his right. Some circumflance or other has prevented his bringing them into ufe. However, there can be no doubt of the fuccefs of his fehmeme, for the Affernbly
of Virginia had the moft unequivocal affurances before they gave the privilege, in a certificate figned by General Wafhington afd Man Page, Efquire: fetting forth, that they had feen a boat, they believed to be conftructed by Mr. Rumfey, afeend a ftream without the aid of manual labour, but without mentioning the operating caufe, which bas fince appeared to be fteam. If this principle fhould fa? , and from fuch authority I do not conceive how it is to be prefumed, I flatter, myfelf that philofophy is capable of fupplying the place in the appropriation of fome one of the fecrets with which mechanics abound.
" In taking a retrofpective view of the world, we are for a moment furprized when we recollect that fome thoufands of years had elapfed before printing was invented; and that the only way of accumulating the copies of art and genius was by the tardy method of tranfcribing; and that the art of navigation was for nearly as long a time devious, and regulated by no certain laws; the ftars and head lands of different countries being the only guides to the adventurous mariner, who often perifhed when the heavens were obfcured. O Liberty! how many bleffings haft thou brought to America! Man in promulgating his opinions, now finds fecurity under the wings of an eftablifhed freedom; and the difmal dungeon, which eclipfed the luminous mind of the celebrated Italian, would now be erected into a fchool for him to lecture in, inftead of a prifon to bewail the miferable ignorance and depravity of his fellow-creatures. Truth and reafon have led to this melioration of manners-it will lead to more benefits to mankind. --- * But fiould we ftill be obliged to row our boats againft the fream, is is not only practicable, but eafy.
" The frequent turnings in the Miffiflippi produce in every bend eddy water; which, with the advantage the wind affords (that blowing the greater part of the year from the fouth-weft, and directly up the windings of the river, by reafon of the vacancybetween the banks and rifing forefts on either fide, affording a channel for the current of the air) is fufficient with fails, keeping as much as poffible in the eddy water, to carry a boat fifty miles a day up the ftream.
"To account for thofe winds, philofophically would be extremely eafy; but as it is a circumftance notorious from the feftimony of voyagers in the Miffifippi, and Ohio, I prefume the teft of experience will be preferred to any philofophical difquifition upon the fubject.
"Should this navigation prove too tedious, and no improvements appear likely to be made in it, the importing into the country may be facilitated by another channel, from the gulf of Mexico up the Ma-
bile, which is a lazy current; from the prineipal branch of which there is but a fhort paffage to a branch of the Tenneffee, when you will have the advantage of the ftream quite into the Ohio. I have enumerated this circumftance merely for the fake of information; for I have not the fmalleft doubt of the eligibility of the navigation of the Miffilfippi, ohich is proved from the experiments which are daily making.
st The diftance from Pittfurg to the Mufkingum is one hundred and feventy-three miles; to the Little Kanhawa one hundred and feventy-eight: to the Great Kanhawa two hundred and eighty-five; to Great Sandy three hundred and forty-two ; to the Scioto three hundred and ninety ; to Lime-ftone five hundred ; to the Little Miami five hundred and ten; to Licking creek five hundred and twenty-four; to the Great Miami five hundred and fifty; to the Great-bone creek five hundred and eighty-two ; to the Kentucky fix hundred and twen-ty-fix; to the rapids feven hundred and three; to Salt river feven hundred and twenty-three; to Green river nine hundred and twentytwo ; to the Wabafin one thoufand and nineteen; to Cumberland river one thoufand one hundred and thirteen; to the Tenneffee one thoufand one hundred and treenty-fix ; to the Miffiffippi one thoufand one hundred and eighty-three; from thefice to New Orleans is about one thoufand and five.
" I have mentioned that it is about two hufdred and thirty miles from the mouth of the Ohio up the Miffifippi to the mouth of the Miffouri, and about twenty from thence to Illingis, which is navigable for batteaux to its fource. From thence there is a portage only of two miles to Chickago, which is alfo navigable for batteaux to its entrance into lake Michegan, which is a diftance of fixteen miles. This lake affords communication with the river St. Lawrence through lake Erie, paffing Niagara by a portage of eight miles. The lakes Erie and Micheg:n are navigable for veffels drawing fix and feven feet water. This is one of the routes by which the exchange of commodities between the northern and fouthern parts of this empire will be facilitated.
$\therefore$ " In continuing the plan of intercourfe, it will be found extremely eafy to pafs through lake Ontario to Wood creek; up Wood creek, - and by a portage of about three miles, you arrive at a creek, which in three miles more Erings you to fort Edward upon the Mohawk river, a branch of Hudfon's river. "There are feveral carrying places lestween that and its junction with Hudfon; but very little do
labour would remave them, and which I have no doubt but the-State of New-York will be judicious enough to fet early about. It is certain they have ordered furveys to be made, and plans are forming
 with them.* It was impoffible a plan of fo much utility could efcape that fage and penetrating politican General Schuyier, whofe vaft eftate hes moftly in that part of America.
*There are alfo portages into the waters of lake Erie from the Wabah, Great Miami, Mufkingum, and Allegany, from two to fixteen miles. The portage between the Ohio and Potomack will be about twenty miles when the obftructions in the Monongahela and Cheat rivers are removed, which will form the firft object of the gentlemen of Virginia when the have completed the canal on the Potomack.
-" The obitructions to the navigation of the great Kanhawa are of fuch magnitude, that it will require a work of ages to remove. them; but if ever that fhould be done, there will be an eafy communication between that and James river, and likewife with the Roanoake, which runs through North-Carolina. But this is an event too remote to deferve any confideration at prefent.
" All the rivers in this country of fixty yards wide and upwards, are navigable almoft to their fources for flat-bottomed boats during their floods, and for batteaux the greater part of the year, the Great Kanhawa and little Miami excepted. The Tenneffee has a confiderable fall where it paffes throdith Cumberland mountain, where there mult be a portage alfor From thence it is navigable quite to Holfton.
"The rapids of the Ohio are no obftruction in high water to boats going down the river and indeed batteaux may pafs almoft at any time. There are two fmall rapids in the Wabafl between its mouth and St. Vincent's, but they are no impediment to navigation, except at times of low water. The Kalkafkia is a fmall river which runs into the Miffifippi below the Illinois, and is navigable confiderable way above the plains. The Miffifippi is navigable to St. Anthony's falls, without any obftruction. Carver defcribes it as navigable above them as far as he travelled. We have too little knowledge of

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## OF KENTUCKY.

the Miffouri to form any decided opinion of the extent of its naviga-, tion. It is however certain, that it is a more powerful ftream than the Mifffifippi, and in entering that river, it triumphantly rufhes acrofs, and its turbid waters,' unmixed, feem to difdain a connection fo inferior. From the beft information that we have been able to collect, it is navigable for twelve or fifteen hundred miles above its mouth without obffruction ; and I think it is not unlikely, that in fettling the country towards its fource, we fhall find it is not remote from the fources of the ftreams running into the Pacific ocean, and that a communication may be opened between them with as much eafe as between the Ohio and Potomack, and alfo between the fettlements on the Miffiffippi and California. This circumftance is the more likely to happen, as it does not appear that the ridges of hills which divide the waters of the Pacific ocean from the waters of the Miffifippi, are either fo high or fo rugged as the Allegany mountains.
" You will obferve, that as far as this immenfe continent is known the courfes and extent of its rivers are extremely favourable to communication by water; a circumftance which is highly important, whether we regard it in a focial or commercial point of view. The intercourfe of men has added no inconfiderable luftre to the polifh of manners, and, perhaps, commerce has tended more to civilize and embellifl the human mind, in two centuries, than war and chivalry would have done in five.
" The federal government regulating every thing commercial, muft be productive of the greateft harmony, fo that while we are dikely to live in the regions of perpetual peace, our felicity will receive a $z$ fft from the activity and variety of our trade. We flall pass through the Miffilifipi to the fea-up the Ohio, Monongahela and Cheat rivers, by a fmall portage, into the Potomack, which will bring us to the federal city on the line of Virginia and Marylandthrough the fever invers I have mentioned, and the lakes to New York and Quebec-from the northern lakes to the head branches of the rivers which run into Hudfon's bay into the Arctic regions-and from the fources of the Miffouri into the great fouth fea. Thus in the center of the earth, governing by the laws of reafon and humanity, we feem calculated to become at once the emporium and protectors. of the world.
" Frequent rains in the latter end of the autumn prodnce floods in the Ohio, and it is an uncommon feafon when one of hofe floods does

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not happen before Chriftmas. If there is much frofty weather in the upper parts of the country, its waters generally remain low until they begin to thaw : but, if the river is not frozen over, which is not very common, there is always water fufficient for boats of any fize from November until May, when the waters generally begin to fubfide; and by the middle of June, in moft feafons, they are too low for boato above forty tons, and thefe muft be flat-bottomed. The froft feldom continues fo long as the middle of February, and immediately upon its breaking, the river is flooded; this flood may in a degree fubfide, but for no length of time; and it is from that period until May that the boats generally come down the river. The diffance of defcending is in proportion to the height of the water; but the average diftance is about eighty miles in twenty-four hours, and from fixty to one hundred are the extremes; fo that the mean time of going in a fat-bottomed boat from Pittfburg to the rapids, is between eight and nine days, and about twenty days more to New Orleans: which will make a paffage from Pittiburg to that place nearly a month. The inuudations of the Miffiffippi commence fomething later than thofe of the Ohio; but it is very certain they begin in March, and fubfide in July. This is the moft proper time to afcend the river, as you avoid the fhoals, have finer weather, but, above all, when the water is high you have ftronger eddies; and with taking thefe advantages, and with dexterous watermen, you may proceed fifty miles a day, which will bring you back to the rapids of the Ohio in forty days, making a large allowance for contingencies.
" The articles of fugar and falt, thồugh not abfolutely neceffaries of life, have become, from habit, fo effential, that I doubt if any civilized people would be content to live without them. The extenfive climate of this country, I believe, is no where warm enough for the cultivation of the fugar-cane with fuccefs; and to import it would be too expenfive by reafon of its great weight; but nature has fuperfeded that neceffity in the fupply of the fugar maple-tree. It has been long known that fugar could be made from the juice of this tree; but from the imperfect knowledge of the bufinefs of fuggr-making, the famples from this liquid were fuch as promifed no great expectations in future experiments: however, the neceflity which the people were under of making it, or doing without fugar, proved, that with care and proper management, it could be made equal to the fines fugars of the Weft-Indies or Brazil. Some famples flewn to a fugar refiner in Philadelphia, which attonifled him, produced feveral ing
fructions in the art, which occafioned immediate fuccefs. The people began to treat the fugar-trees more tenderly: and inftead of chopping a large gap in their trunk, as had always been the practice, and which was fufficient to deftroy a lefs tender tree, the juice was found to ooze as effectually from an incifion made with a fcrew auger of three quarters of an inch diameter. But this was the fmalleft of the improvements. All the means made ufe of in the Wert-Indies for the perfection of the art were foon afcertained and practifed : fo that the country is not only equal to fupply itfelf with fugar, but might, with increafe of hands, fupply the inhabitants of the globe.
" The fugar maple-tree not only grows in the greateft abuncance throughout this country within the limits I have mentioned, but it is known to be the hardieft, and the moft difficult to deftroy, of all the trees in our forefts, the beech not excepted, by the planters, who have a method of chopping or girdling the trunks of trees about one foot and a half above the ground, in order to kill them, and thereby they prevent their crops from being fhaded.
"It is known, that old trees produce the moft and the richeft juice; and it is alfo known, that trees which have been ufed for years are better than frefh trees. It is a common remark, that whenever you fee a black tree of this fort, it is a fure fign it is a rich one. The blacknefs proceeds from the incifions "raide in the bark by the pecking of the parroquet, and other birds, in the feáfon of the juice rifing, which oozing out, dribbles down its fides, and ftains the bark, which, in the progreffion of time, becomes blaek.
"I have mentioned theie particulars with a view to prevent your falling into the general error, that the refource of making fugar from the maple will foon be deftroyed from the very nature wi producing it; believing, as many do, that it is impoffible for the tree to be able to bear the annual wounds which are neceffary to be made in its trunk in order to draw off the juice; and that a few years muft neceffarily extirpate them; now, fo far from there being any danger of that, experience has fhewn, the longer that they are ufed in a proper manner, the more plentiful and rich will be their juice to a certain age; . which will be in proportion to the lifé of thofe trees. No exact eftimate can be made of that; but I conciude their decay is nc: earlier than other trees.
" The feafon of tapping is moftly about the middle of Fcirary in Kentucky; but not until the latter end of the month, about Pitaburg, in the remote parts of Pennfylvania, on the head branches of Bb 2
the Sufquehanna, and Delaware, and in the State of New York: Frofty mornings and hright funfhine are neceffary to produce copious exudations. The feafon continues in this climate about fix weeks, when the juice is found to be too thin and poor to make fugar ; but it is ftill capable of making molaftes, fpirits by diftilation, vinegar, and an agreeable table beer.
" The bufinefs of fugar-making is moftly managed by women and boys; the men generally having nothing more to do with it than to tap the trees, prepare the fheds, and different apparatus. So that our agricultural employments are very little obftructed by this bufinefs, which produces fo inportant an article for domeftic ufes. The perfection to which we have brought our fugars has induced many people in the upper parts of the States of New-York and Pennfylvania to make a bufinefs of it during the feafon of the juice running ; and confiderable quantities have been fent to the markets of Philadelphia and York, not inferior to the beft clayed French and Spanifh fugars.
"The falt fprings that have been found in the fingle State of Kentucky, under proper management, would be fufficient to produce falt for all the inhabitants which the weftern country could fupport. There are at leaft twelve of thofe fprings between Great Sandy and Cumberland; the principal of which are the upper and lower Blue licks, on Licking creek ; one on the Great-bone creek ; one on Drinmon's lick creek, about a mile and a half from the mouth of the Kentucky ; and Bullit's lick, on Salt river, twenty miles from the rapids of the Ohio. This fpring is the firlt that was worked in the country. The firft effays in this bufinefs were alfo imperfect, which, however, proceeded more from poverty than ignorance. The great principle by which the faline particles are chryftallized, is univerfally known to be by the evaporation of the humid; and the greater the fuperficial furface of that evaporation, the more rapidly the chryftals will form. But the firf fettlers could not procure falt pans, and were obliged to ufe as a fubftitute the pots and kettles they had brought out for domeftic purpores.
"Such was the commencement of making falt in this country; which, from its fcarcity and high price, in fome meafure difcouraged the fettlement of the country. However, the great improvements fince that æra have done away all thofe fears, and falt is now manur factured in plenty, and fold cheap.
! The water is by no means fo ftrong as fea water. It requires nexirly four hundred gallons to make one bufhel of falt, which is more by one hail than would be wanted of fea water to produce that quantity.
"The water is not collected in mediately from the fpring. An area of from five to ten acres round thofe fiprings is found to be impregnated with this miaeral, fo that by digging welis in any part of that lpace falt water is difcovered. From this circumftance I am of opinion, that by digging pits a body of earth would be found ftrongly impregnated with falt, from which the faline particles might be more eafily feparated than from water; and it is certain, that if the water receives its particles of faltefronn the earth that it paffes through, fuch earth mut contain a large próporion of falt, otherwife the freagth of the water would not be fo cômfiferable. However it will require fome time to determine this matter, as the infancy of our country will not permit us to fpeculate too largely in experiments that would be attended with heavy expenfes, were they not to prove fuccefsful.
"S Salt fprings have been found in every part of the weftern countryy, which has been well explored, and I have no doubt that time will prove every part of it is well fupplied with them. The manner by which they are moflly found in uninbabited places, is by the large buffalo roads which lead to them. Whenever the ramification of thofe roads begin to concenter, it is almoft an infallible fign that a falt lick is near. Thofe animals reforting to them throughout the temperate part of the year for the benefit of the falt, make large roads, which leading from the lick, branch different ways into the country.
"We have various otherminerads, fuch as iron, which is the moft ufeful, copper, lead, fulphur, nitre, \&c. \&c. Iron ore is found in great plenty upon the northern branches of Licking creek, and likewife upon the waters of Green river. A lead mine has been worked many years with confiderable profit, which lies in the country of Montgomery, upon the waters of the Great Kanhawa. There is another between the Cumberland and Tenneffee rivers, faid to be : very valuable, and its ore more pure than any other which has been difcovered in America. But the lead mine on the Miffffippi muft prove inexhauftible. It extends from the mouth of Rock river móre than one hundred miles upwards. Befides thefe, there are feveral others, fome of which lie on the Spanifl fide of the Miffifippi, and have been ufed for years paft: Copper mines have beeri difcovered in feveral places, but the mine on the Wabafh is, perhaps, the richert
vein of native copper in the bowels of the whole earth: and no dotibe will render all the others of little or no value. Sulphur is found in $f e=$ veral places in abundance; and nitre is made from earth which is collected from caves and other places to which the wet bas not penetrated. The making this falt, in this country, is fo common, that many of the fettlers manufacture their own gunpowder. This earth is difcovered in greater plenty on the waters of Green river, than it is in any other part of Kentucky ; but perhaps fill farther fouthward it will be foumd in greater plenty. However, it is fo common in every part of the country, that it might be made a confiderable article for exportation. I have heard of black lead mines upon the head waters of the Kentucky, but I have not been able to procure any certain information refpecting them. But I fhould conceive that there can be little doubt, that when the country, and particularly the mountainous parts of it, are well explored, all the ufeful minerals will be found in abundance.
"I I have already mentioned the coal mines in the uppễr parts of the Ohio country ; befides which therè are great quantities of coal upon the upper branches of the Miffifippi. It is particularly favourable that this mineral lies at the heads of our larger rivers, as it can be fent down with the greateft facility; and it is very certain that the great body of it, which the Ohio country alone contains, is equal to anfwer all the purpofes for which it may be wanted throughout this extenfive empire.
"Though the champaign part of this country has no ftone on its furface, yet every where lime-ftone is found from fix to fifteen feet below it. Moft of the bottoms of our riñulets and freams are paved with this fone. It is very eafily calcined, when it becomes excellent lime. It is alfo convenient for building, by reafon of its peculiar finoothnefs, and the eafe with whichrit may be worked intó any form. Befides this ftone, whicte is the moft common, every other kind of ftone is found that is either ${ }^{\text {tifeful }}$ or ornamental ; fuch as fliit, grindfrone, and millitones, of a very good quality, which have been reckoned equal to French burrs. There is the greateft plenty of marble upon the banks of the Kentucky, particularly at Leeßburg. I have not feen any that has been polifined; but judges in that bufinefs give us the moft flattering ideas of its quality.
" Clay is very common in every part of thiscountry which is proper for bricks ; and there is a fuperior kind on the Beech fork of Saltriver, which no doubt might be manufactured into good porcelain.

Carver has mentioned a clay of this fort that he faw above St. Anthony's falls. Marl, chalk, gypfum, and ocres, are found in various parts.
" With refpect to climate in Kentucky you experience a greater - temperature of air than in any country in which Iever travelled, Fahrenheit's thermometer feldom falling below 35 degrees in winter, nor rifing above 80 in fummer. The approach of the feafons is gradual. The fummer continues mofly to the middle of October. The autumn, or mild weather, generally continues until Chriftnas, when we heve rome cold and froft until February, when.fpring approaches, and by the beginning of March feveral fhrybs and trees begin to fhoot forth their buds; by the middle of the month, the buck-eye or hore-chefEnut is clad in its fummer's livery; and by the middle of April the foliage of the forefts is completely expanded; which is a fortaight earlier than the leaves are fhot in Virginia and Maryland. Cumberland is proportionally more temperate than North-Carolina, as Kentucky is than Virginia."

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## STATE OF NORTH-CAROLINA.

## SITUATION, EXTENT, AND BOUNDARIES.

THIS State is fituated between $35^{\circ} 50^{\prime}$, and $36^{\circ} 30^{\prime}$ north-latitede, and $1^{\circ}$ and $6^{\circ} 30^{\prime}$ weft-longitude from Philadelphia. Its length is abnut three hundred miles, and its breadth one hundred and twenty ; it therefore contains about thirty-four thoufand fquare miles. It is bounded on the north, by Virginia ; on the eaft, by the Atlantic ocean; on the fouth, by South-Carolina and Georgia; and on the weft, by a chain of mountains a few miles to the weftward of the Great Appalachian mountains. This chain of mountains, taking the whole for a part, has occafionally been called the Great - - Iron mountain. All that vaft country which lies on the weft of the Iron mountain, was furrendered to the United States by the State of North-Carolina in the year 1789. It has fince been erected into a feparate government, commonly called the Territory South of Ohio, or the Tenneffee government.

- The charter limits of North-Carolina were a line, beginning on the fea fide, at a cedar ftake, at or near the mouth of a little river on the fouthern extremity of Brunfwick county, and running thence $z$ north-weft courfe through the boundary-houfe, in latitude $33^{\circ} 56^{\prime}$ to latitude $35^{\circ}$, and on that parallel weft as far as is mentioned in the charter of King Charles II. to the original proprietors of Carolina, viz. to tbe Soutb Sea. Their northern line begins on the fea coaft in latitude $3^{\circ} 3^{\circ} 0^{\prime}$, and runs due weft to the termination of the fouthern line. This line ftrikes the Miffiffippi fifteen miles below the mouth of the Ohio. Thefe limits were afcertained and confirmed agreeably to an order of George II. in council. Great-Britain, by the treaty of $r_{7} 63$, which was made with France and Spain, furrendered her claim to all the territory weftward of the Mififfippi ; and thofe na-
tions, by the fame treaty, granted to Great-Britain the free navigation of the Miffiffippi. .By the treaty of 1783 , between Spain and Great-Britain, his Catholic Majefty exprefsly confirms the former treaty of $1 ; 63$, except fuch parts as are there excepted; confequently he confirins to Great-Britain the navigation of the Miffiffippi ; and Great-Britain, on her part, yields to the United States her entire right to the navigation of the fame river. But fince Spain now claims the exclufive navigation of the Mifflfippi, which fle had formerly furrendered, it is very probable that the United States to whom North-Carolina has ceded her weftern territory, may claim the lands on the weft fide of the Miffffippi, which were within the original charter bounds of that State.


## CLIMATE.

The weftern hilly parts of this State are as healthy as any of the United States. The country is fertile, full of fprings and rivulets of pure water. The air is ferene a great part of the year, and the inhabitants live to old age, which cannot fo generally be faid of the inhabitants of the flat country. Though the days in fummer are ex. tremely hot, the nights are cool and refrefhing. Autumn is very pleafant, both in regard to the temperature and ferenity of the weather, and the richnefs and variety of the vegetable productions which the feafon affords. The winters are fo mild in fome years, that autumn may be faid to continue till fpring. Wheat harveft is in the beginning of June, and that of Indian corn early in September.

In the flat country, near the fea coaft, the inhabitants, during the fummer and autumn, are fubject to intermitting fevers, which often prove fatal, as bilious or nervous fymptoms prevail. Thefe fevers are feldom immediately dangerous to the natives who are temperate, or to ftrangers who are prudent. They, however, if fuffered to continue for any length of time, bring on other diforders, which greatly impair the natural vigour of the mind, debilitate the conftitution, and terminate in death. The countenances of the inhabitants during thefe feafons have generally a pale yellowifh caft, occafioned by the prevalence of bilious fymptoms. They have very little of the bloom and frefhnefs of the people in the northern States.

It has been obferved that more of the inhabitants, of the men efpecially, die during the winter by pleurifies and peripneumonies, than during the warm months by bilious complaints. Thefe pleuriGes are brought on by intemperance, and by an imprudent expofure VoL. III.
to the weather. Were the inhabitants cautious and prudent in thefe refpects, it is alledged by their phyficians, that they might in general efcape the danger of there fatal difeafes. The ufe of flannel next to the fikin during the winter is reckoned an excellent preventative of the difeares incident to this climate.

## FACE OF THE COUNTRY, SEA COAST, \&c.

North-Carolina, in its whole width, for fixty miles from the fea, is a dead level. A great proportion of this tract lies in foreft, and is barren. In all the champaign country, marine productions are found by digging eighteen or twenty feet below the furface of the ground. The fea coaft, the founds, inlets, and the lower parts of the rivers, have uniformly a muddy, foft bottom. Sixty or eighty miles from the fea, the country rifes into hills and mountains.

The feveral rivers in this State are the Chowan, formed by the confluence of the Meherrin, Nottaway, and Black rivers; all of which rife in Virginia. It falls into the north-weft corner of Albemarle found, and is three miles wide at its mouth, but narrows faft as you afcend it.
The Roanoke, a long rapid river, formed by Staunton river, which rifes in Virginia, and Dan river, which rifes in South-Carolina. The low lands on this piver are fubject to inundations. It is navigable only for fhallops, nor for thefe, but about fixty or feventy miles, on account of falls, which in a great meafure obftruct the water communication with the back country. It empties, by feveral mouths, into the fouth-weft end of Albemarle found. The planters on the banks of this river are fuppofed to be the wealthieft in North-Carolina. One of them, it is faid, raifes about three thoufand barre's of corn, and four thoufand bufhels of peas, annually.

The Cuflai is a fmall river, which empties into Albemarle found, between the Chowan and the Roanoke.
Pamlico, or Tar, a river which opens into Pamlico found: its courfe is from north-weft to fouth-eaft. It is navigable for veffels drawing nive feet water to the town of Wafhington, about forty miles from its mouth; and for foows or flats, carrying thirty or forty hogheads, fifty miles farther, to the town of Tarborough. Beyond this place the river is inconfiderable, and is not navigable.
The Neus, a river which empties into Pamlico found below New-

## into the ocean.

Pamlico found is a kind of lake or inland fea, from ten to twenty miles broad, and nearly one hundred miles in length. It is feparated from the fea, in its whole length, by a beach of fand hardly a mile wide, generally covered with fmall trees or bufhes. Through this bank are feveral fmall inlets by which boats may pafs. But Ocrecok -inlet is the only one that will admit veffels of burthen into the diftricts of Edenton and Newbern. This inlet is in latitude $35^{\circ} 10^{\circ}$, and opens into Pamlico found between Ocrecok ifland and Core bank; the land on the north is called Ocrecok; on the fouth Portfmouth. A bar of hard fand croffes this inlet, on which, at low tide, there is 'fourteen feet water. Six miles within this bar is a hard fand floal, called the Swafh, lying acrofs the channel. On each fide of the channel are dangerous fhoals, fometimes dry. There is from eight to nine feet water at full tide, according to the winds on the Swaft. Common tides rife eighteen inches on the bar, and ten on the Swalh. "Between the bar and the Swalh is good anchoring ground, called the Upper and Lower auchorages. Ships drawing ten feet water do not come farther than the firft anchorage, till lightened. Few mariners, though acquainted with the inlets, choofe to bring in their own veffels, as the bar often fhifts during their abfence on a voyage. North of Pamlico, found, and communicating with it, is Albemarle found, fixty miles in lengtit, and from eight to twelve in breadth.

Core found lies fouth of Pamlico, and communicates with it. Thefe founds are fo large when compared with their inlets from the fea, that no tide can be perceived in any of the rivers which empty into them, nor is the water falt even in the mouths of thefe rivers,
Cape Hatteras is in latitude $35^{\circ} 15^{\prime}$. At the time of Sir Walter Raleigly's approaching the American fhores, the fhoals in the vicinity of Hatteras were found to be extremely dangerous, and no veffels in that latitude ventured within feven leagues of the land. From a furvey of the ancient drafts of this part of the coaft, there can be no doubt but the fears of former navigators were not without foundation, as thefe floals are laid down very large in extent, and in many places covered with not more than five or fix feet water, at a great diftance from the land,

The conflant experience of the coaffing trade of the United States demonfrates either that the ancient drafts were purpofely falfified
in order to deter feamen from venturing too near a coaft, with which they had as yet a very flender acquaintance, or, wbich is the moft probable, that by the ftrong currents hereabouts, which are only counter currents of the gulph ftream, the \{ands, which were originally heaped up in this part of the ocean by fome ancient convulfion of nature, have been gradually wearing away, and diminifling to what we find them to be at this time.

At prefent the out fhoals, which lie about fourteen miles fouthweft of the cape, are but of five or fix acres extent, and where they are really dangerous to veffels of moderate draught, not more than half that number of acres. On the fhoaleft part of thefe there is, at low water, about ten feet, and here at times the ocean breaks in a tremendous manner, fpouting, as it were, to the clouds, from the violent agitations of the gulph ftream, which touches the eaftern edge of the banks, from whence the declivity is fudden, that is to fay, from ten fathoms to no foundings. Or the fpot abovementioned, which is firm fand, it has been the lot of many a good veffel, in a gale of wind, to ftrike, and go to pieces. In moderate weather, however, thefe fhoals may be paffed over, if neceffary, at full tide, without much danger, by veffels not drawing more than eight, nine, or ten feet water.

From this bank, which was formerly of vaft extent, and called the Full Moon Shoal, a ridge runs the whole diftance to the Cape, abcut a north-weft courfe : this ridge, which is about half a mile wide, has on it at low tide, generally ten, eleven, and twelve feet water, with gaps at equal intervals, affording good channels of about fifteen or fixteen feet water. The moft noted of thefe channels, and moft ufed by coafting veffels, is about one mile and a half from the land, and may eafily be known by a range of breakers which are always feen on the weft fide, and a breaker head or two on the eaftern fide, which, however, are not fo conftant, only appearing when the fea is confiderably agitated. This channel is at leaft two and a half miles wide, and might at full fea be fafely paffed by the largeft fhips; thefe however rarely attempt it. The common tides fwell about fix feet, and always come from the fouth-eaf. A little north of the cape is good anchoring in four or five fathoms, and with the wind to the weftward, a boat may land in fafety, and even bring off calks of freß water, plenty of which is to be found every where on the beach, by digging a foot or two, apd putting a barrel into tbe farsd

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 GENERAL DESCRIPTIONCape Lookout is fouth of cape Hatteras, oppofite Core found, and has already been mentioned as having had an excellent harbour, entirely filled up with fand fince the year 1777 -

Cape Fear is remarkable for a dangerous fhoal, called from its form the Frying-pan. This fhoal lies at the entrance of cape Fear river, the fouth part of it, fix miles from cape Fear pitch, in latitude $33^{\circ} 3^{2}$.
There are in this State two fwamps, that have obtained the names of Great and Little Difrnal.

Great Difmal is on the dividing line between Virginia and NorthCarolina. It is chiefly owned by two companies. The Virginia company, of whom the Prefident of the United States is one, owns one hundred thoufand acres. The North-Carolina company owns forty thoufand acres. In the midft of this Difmal there is a lake about feven miles long, called Drummond's pond. The waters of which in rainy feafons difcharge themfelves to the fouthward into the . Parquotank, and to the north and eaftward into the branches of the Nanfemond, Elizabeth river, and a river which runs into Currituck found; a navigable canal is to be dug from the head of the Pafquotank to the head of Elizabeth river in Virginia; the diftance is about fourteen miles. This canal will pafs about a mile to the eaftward of Drummond's pond, and will receive water from that lake : to pafs through the lake would not be fafe for low-fided veffels. The company by whom this canal is to be cut, have been incorporated by the concurring laws of Virginia and North-Carolina. In September, 1791, the fubfription was nearly full, and the company chofe their directors, and-other officers. By this canal the exports of Norfolk muft be greatly increafed.
Litile Difmal is in Currituck county on the fouth fide of Albemarle

- Found. This Difmal had not drawn the public attention as an object of importance before the end of the late war, at which time it was chiefly taken up. It is now fuppofed to contain one of the moft valuable rice effates in America. In the midft of this Difmal there is a - Jake of about eleven miles long, and feven miles broad. In the year ${ }_{37} 85$, and $I_{1} 86$, Jofiah Collins, Efq. of Edenton, in company with Mefrrs. Allen and Dickinfon of that place, taok up near one hundred thoufand acres of land round the lake, for the purpofe of making a navigable canal from the lake to the head of Skuppernong river; the diftance of which is five:and a half miles, This canal, twenty feet wide, was finifhed in 1790 , and the company in 179 r raifed above
one hundred and twenty acres of rice on the margin. The natural channel by which the lake ufed to difcharge its waters is now ftopped, and the waters pafs off by the canal. About five hundred yards from the lake, the company have erected feveral faw mills. The water in the lake is higher than the furface of the ground for about half a mile diftance on both fides of the canal; whence it follows, that the company can at any time lay under water about ten thoufand acres of a rich fwamp, which proves admirably fitted for rice.


## SOIL, PRODUCTIONS,-\&ic.

On the banks of fome of the rivers, particularly of the Roanoke, the land is fertile and good, interfperfed through the other parts are glades of rich fwamp, and ridges of oak land of a black fertile foil.

Wheat, rye, barley, oats, and flax, grow well in the back hilly country. Indian corn and pulfe of all kinds in all parts. Ground peas run on the furface of the earth, and are covered by hand with a light mould, and the pods grow under ground : they are eaten raw or roafted, and tafte much like an hazle nut. Cotton and hemp are alfo confiderably cnltivated here, and might be raifed in much greater plenty. The cotton is planted yearly: the ftalk dies with the froft. The labour of one man will produce one thoufand pounds in the feeds, or two hundred and fifty, fit for manufacturing. The country is generally friendly to the raifing of fheep, which yield from three quarters of a pound to two pounds and a balf of wool, which is fhort and not very fine.

The large natural growth of the plains in the low country is almoft univerfally pitch pine, which is a tall, handfome tree, far fuperior to the pitch pine of the northern States. This tree may be called the ftaple commodity of North-Carolina. It affords pitch, tar, turpentine, and various kinds of lumber, which together conftitute at leaft one half of the exports of this State. This pine is of two kinds, the common and the long-leaved. The latter has a leaf fhaped like other pines, but is nearly half a yard in length, hanging in large clufters. No country produces finer white and red oak for faves. The fwamps abound with cyprus and bay trees. The latter is an evergreen, and is food for the cattie in the winter. The leaves are fhaped like thofe of the peach tree, but larger. The moft cominon kinds of timber in the back country are, oak, walnut, and pine. A fpecies of oak grows in the moif, fandy foil, called black jack. It feldom grows. larger than eight or nine inches diameter. It is worthy of remark,
that the trees in the low country, near the fea coaft, are loaded with valt quantities of a long fpecies of mofs, which, by abforbing the noxious vapour that is exhaled from ftagnated waters, contributes much, it is fuppofed, to the healthinefs of the climate. This hypothefis is confirmed'by experience, fince it is commonly obferved, that the country is much lefs healthy for a few years after having been cleared, than while in a ftate of nature.

The mifsletoe is common in the back country. This is a florub which differs in kind, perhaps, from all others. It never grows out of the earth, but on the tops of trees. The roots, if they may be fo, called, rup under the bark of the tree, and incorporate with the wood. ${ }^{-}$ It is an evergeen, refembling the garden box wood.

The principal wild fruit are plums, grapes, ftrawberries, and blackberries.

The country is generally covered with herbage of various kinds, and a fpecies of wild grafs. It abounds with medicinal plants and roots ; among others are the ginfeng; Virginia frake root; Seneca fnake root, an herb of the emetic kind, like ipecacuana; lion's heart, which is a fovereign remedy for the bite of a ferpent. A fpecies of the fenfitive plant is alfo found here; it is a fort of brier, the ftalk of which dies with the froft, but the root lives through the winter, and fhoots again in the fpring. The lighteft touch of a leaf caufes it to turn and cting clofe to the ftalk. Although it fo eafily takes the alarm, and apparently fhrinks from danger, in the fpace of two minutes after it is touched, it perfectly recovers its former fituation. The mucipula veneris is alfo found here. The rich bottoms are overgrown with canes; the leaves are green all the winter, and afford an excellent food for cattle; they are of a fweetilh tafte, like the ftalks of green corn, which they in many refpects refemble.

There is a long ridge of lime-ftone, which, extending in a fouthwefterly direction, croffes the wholeState of North-Carolina. It croffes Dan river to the wefturard of the Sawro towns, croffes the Yadkin about fifty miles north-weft from Salibury, and thence proceeds by the way of King's mountain to the fouthern States. No lime-ftone has been found to the eaftward of that ridge. A fpecies of rock has been found in feveral places, of which lime is made, which is obvioufly a concretion of marine flells. The State is traverfed nearly in the fame direction by another ftratum of rocks which paffes near Warrenton. It is a circumftance worthy of obfervation, that the .

Yprings of water on the north-weft fide of the ridge are apt to fail in dry feafons; on the fouth-weft fide they feldom fail.

The river Yadkin, where it paffes Salibury, is about four hundred yarcis broad, but it is reduced, between two hills, about twentyfive miles to the fouthward of that town, to the width of eighty or one hundred feet. For two miles it is narrow and rapid, but the moft narrow and rapid part is not above half a mile in length. In this narrow part, flad are caught in the fpring of the year by hoopnets, in the eddies, as taft as the ftrongeft men are able to throw them out. Perthaps there is not in the United States a more eligible fituation for a large manufacturing town. Boats with forty or fifty hogheads may pafs eafily from thefe rapids to George-town.

## CIVIL DIVISIONS.

This State is divided into eight diftricts which are fubdivided into gifty-four counties, as follows;
district of edenton.

| Chowan, | Pafquotank, | Hertford, |
| :--- | :--- | :--- |
| Currituck, | Perquimons, | Bertie, |
| Camden, | Gates, | Tyrrel. |

DISTRICT OF WILMINGTON.

| New Hanover, <br> Brunfwick, | Duplin, <br> Bladen, |
| :--- | :--- |


| Graven, | Johnfton, | Wayne, |
| :--- | :--- | :--- |
| Beaufort, | Pitt, | Hyde, |
| Carteret, | Dobbs, | Jones. |

Thefe three diftricts are on the fea-coaft, extending from the Virginia line fouthward, to South-Carolina.

| district of halifax. |  |  |
| :---: | :---: | :---: |
| Halifax; | Edgecombe | Franklia, |
| Northampton, | Warren, | Nafh. |
| Martin, |  |  |
| district of hillsborough. |  |  |
| Orange, | Granville, | Wake, |
| Chatham, | Calwell, | Randolf. |
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| Rowan, | Iredell, | Stokes; |
| :--- | :--- | :--- |
| Mecklenburgh, | Surry, | Guilford. |
| Rockingham, | Montgomery; |  |

DISTRICT OF MORGAN.
Burke,
Lincoln,
Wilkes.
Ruthford,
DISTRICT OF EAYETTE.
Cumberland; ध Rictimond, Sampfor', Moure, Robifon, Anfon.
Thefe five diftricts, beginning on the Virginia line, cover the whole State weit of the three maritime diftricts before mentioned; and the greater part of them extend quite acrofs the State from north 10 fouth.

## CHIEF TOWNS.

Newuern, Edenton, Wilmingtone; Halifax, Hillborough, Salifbury, and Fayetteville, each in their turns have been the feat of the General Affembly. At prefent they have no capital. According to the confitution of this State, the General Affemblies are to meet at any place they think fit on their own adjournments. The effect of this power was fuch as might be expected, in a tate where there is no very large city or town nearly central ; it was the fource of conftantintrigue and difquietuds. The Affembly feldom fat twice in fucceffion in the fame place. The public officers were fattered over every part of the country. You could feldom vifit the governor, the fecretary, the treafurer, or the comptrolier, in lefs riding than two or three hungred miles. Hence records were loft, accounts were badiy kept, and the State from that fingle misfortune, is fuppofed to have loft more than a million of dollars. It was equally clear to all parties that the government fhould not be itinerant, and the cons vention which met in the year $\mathrm{I}_{7} 88$, to confider of the new federal conftitution accurding to their inftructions, fook this part of their own conftitution into their confideration, and by a very fmall majority refolved that the feat of government finould be fixed at fome place to be agreed on by commififoners, within ten miles of Wake court-houfe. This is a healthy and central fituation. But an act of the legiflature became neceffary to give effect to this ordinance, and in fubfequent affemblies, there has been generally a fimilar majority, that
is to fay, a majority of one or two to oppofe the ordinance. The profits that might arife to a few publicans and hop:eepers at fome other town in which the Affembly might meet, occafioned more activity and procured more votes than the patriotic defire of terminating difputes and fecuring a quiet, order!y, and good government. For the honour of reafin, by which men nould be governed rather than by paffion, it is to be wifhed that their legiflatures, in fimilar circumftances, had not acted in a fimilar manner.

The Genera! Affembly of the State; at their feffion in December, 1791, however, paffed a law for carrving the ordinance into effect, and appropriated ten thoufand pounds towardserectirg public buildings.

## NEWBERN.

Newbern is the largeft town in the State. It ftands on a flat, fandy point of land, formed by the confluence of the rivers. Neus on the north, and Trent on the fouth. Oppofite the towne Neus is about a mile and a half, and the Trent three quarters of a mile wide. The town contains about four hundred houfes, ${ }^{*}$ all built of wood, excepting the ci devant palace, the church, the gaol, and two dwelling houfes, which are of brick. The palace is a building erected by the province before the revolution, and was formerly the refidence of the governors. It is large and elegant, two ftories high, with two wings for offices, a little advanced in front tceards the town; thefe wings are connected with the principal building by a circular arcade. This once handfome and well-furnifhed building is now much out of repair. One of the halls is now ufed for a dancing, and the other for a fchool-room; which are the only prefent ufes of this palace. The arms of the king of Great Britain fill appear in a pediment in front of the building. The Epifcopal church is a fmall brick building, with a bell. It is the only houfe for public wordhip in the place. A rum diftillery has lately been erected in this town. It is the county town of Craven county, and has a court-houfe and gaol. The court-houfe is raifed on brick arches fo as to render the lower part a convenient market-place; but the principal marketing is done with the people in their canoes and boats at the river fide.

EDENTON,
Edenton is fituated on the north fide of Albemarie found ; and has about one hundred and fifty indifferent wood houfes, and, a few
\% In September, 1.791, near one third part of this town was confumed by fire.
D d 2
hand-
handfome buildings. It has a brick chu:ch for Epifcopalians, which for many yeurs has been much neglected, and ferves only to flew that the people once had a regard, at leaft, for the externals of religion. Its iocal fituation is advantageous for trade, but not for health. It is the county town of Chowan county, aud has a court-houfe and gaol. In or near the town lived the proprietary, and the firft of the royal governors.

## WILMINGTON.

Wilmington is a town of about one hundred and eighty houfes, fituated on the eaft fide of the eaftern branch of Cape Fear or Clarendon river, thirty-four miles from the fea. The courfe of the river, as it paffes by the town, is from north to fouth, and is about one hundred and fitty yards wide.

In 1786 a fire broke out, fuppofed to have been kindled by the negroes, and confumed about twenty-five or thirty houfes. The town is rebuilding flowly.

## HILLSBOROUGF.

Hillfborough is an inland town, fituated in a high, healthy, and fertile country, one hundred and eighty miles nortleweft from Newbern. It is fettled by about fixty or feventy families.

SALISBURY.
Salifury is agreeably fituated, bout five miles from Yadkin river, and contains about ninety dwelling houfes.

Halifax is a neat little town; it ftands on the weftern bark of the Roanoke, about fix miles below the falls, and has about thirty or forty dwelling houfes.

## fayetteville.

Fayetteville ftands on the weft fide of Clarendon, commonly called Cape Fear river, and about a mile from its banks. It is well-built on both fides of a creek, from which the town was formerly'called Crofs Creek. Two fmall creeks unite near the town, and an ifland, juft below the junction, divides, the creek. Solne perfon took it into his head that the creeks croffed each other without mixing their waters; and the ftrangenefs or improbability of the thing, as in many other cafes, feems to have been the reafon, why it was believed. Since the peace, this town has flourifhed, but a confiderable part of
it was burnt in 1792. It $£$ fituated on a etthenent of Scotch HISalanders.

## WASHINGTON.

Wafhington is fituated in the county of Reaurnt, on the north fide of I ar river, in latitude $35^{\circ} 30^{\prime}$, distant troin Ocrerik it t ninety miles. From this town is exported tovace on he Part an quality, pork, beef, Indian corn, peas, bens, pitct, tor, iu:c, rofin, \&ic. and pine boards, thingles and oik teves. Ations one hundred and thirty veffels enter annually at the cutiom- 10 ufe in cais town.

GREENFVIC.EE.
Greeneville, fo called after Major-general Natbaniel Greene, is fituated in Pitt county, on the fouth bant of ${ }^{\prime}$ ar river, in dati urde $35^{\circ} 35^{\prime}$, diftant from Ocrecok inlet one hundred an ite. $\mathfrak{a}$, it At this town there is an academy eftablifher, called the liti Ac.derr $\%$

## TARBOROUGH.

Tarborough is fituated in the cousty of Edgeconib, on the fouth bank of Tar river, in latitude $35^{\circ} 45^{\prime}$, dittant siom Ocicr. x z. iet one hundred and forty miles. At this town lirge cuantitecr obacco of the Peterfburgh quality, poik, beef and iadan corn, are follected for exportation.

## POPULATLSN

From the marfhal's return it appears, th it the namber of inhabitants, in the year 1791, was three hundred and ninety three thoufand feven hundred and fifty-one, of whom two hundred and nenetythree thoufand one hundred and feventy-nive were c.izefst perhms there are few inftances of fuch a rapid increafe of mitbiants as we. find in this State: in the year 1710 , we are well afiated, that tie number of inhabitants in North-Carolina did not exced fix is are fand: this extraordinary increafe mult arife, in a g-a.t meatore, from the migration of inhabitants from other States, or from difint countries; but this will not fully account for the nrefeat it: ef population in North-Carolina. By examining the retarn, we find there are one hundred and forty-feven thoufand $f$ ur hundred and ninety-four white male inhabitants; we alfo fin, that the number of maies under fixteen years exceed the number above fixteen, tiy feven thoufand five hundred and eighteen, whic: is about one-nineteenth of the whole. This is a very rmarkade fact, as is retpects the in-
creafe of the human fpecies. We find a fmall difference in the States of Deiaware, Virginia and Georgia, in favour of thofe under fixteen. The difierence in Kentucky is fimilar to that of North-Carolina. In the other States, the number above fixteen is greateft, and in the feveral kingdems in Europe, as far as our information reaches, the inhabitants above fixteen are univerfally much more numerous than thofe under that age. The great difference that appears in NorthCarolina in favour of children, cannot be, explained by fuppofing that the climate is fickly, for we know that fuch climates are equally fatal to young and old. The idea too of a fickly climate does not accord with the prodigious increafe of inhabitants in this State, nor with another fact, viz. that there is a confiderable proportion of very old inhabitants in the State. To explain this we muft obferve, that the human fpecies, and all other animals, are found to increafe in propation to the comforts of life, and the eafe with which they can fupport their progeny. Remove the rigours of an inhofitable ciimate, and the more uniform diffuafive to matrimony, the apprebended dificulity of fupporiing a family, and the human fpecies would dopuble, not in twenty but in fifteen years. In North-Carclina, neither the cold of winter, nor the heat of fummer, are in the back country at all difagreeable: land continues to be plenty and cheap; grain is raifed with fo much eafe, and the trouble of providing for cattle in winter fo trifling, that a man fupports his family with half the labour that is required in the cold climates. Under thefe advantages, we are not to wonder that people in all ranks of life fhould marry very young; we have heard of yrandmothers in this State who were pot more than twenty-feven years old.

The following tables flew the proportion of population in the different parts of the State, according to the return made in 179 I .

EDENTON DISTRICT.

| COUNTIES. |  |  | Free white fcmales. |  | \% | ت゙ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Chowan, including |  |  |  |  |  |  |
| town of Edenton, $\}$ Perquimons, |  | 559 |  |  | 25 SS | 5011 |
| Pafquotank, . | 885 | 923 | 1717 |  |  | 5.40 |
| Camden, | 951 | 1034 | 1810 | 79 | 1623 | 5497 |
| Currituck, | $\begin{array}{r}727 \\ \hline 1017\end{array}$ | $\begin{array}{r}758 \\ \hline 1024\end{array}$ | 1480 | 30 | 1038 | 403.3 |
| Gates, - |  | 1024 | 19.50 | 15 | 1103 | 5219 |
| Hertford, | 79 <br> 814 | 775 | 1515 | 93 | 2219 | 5392 |
| Bertie, - | ${ }^{1} 762$ | $\begin{array}{r}823 \\ 1841 \\ \hline 1\end{array}$ | 1533 | 218 | 2442 | 5828 |
| Tyrrel, | 1762 807 | 1841 959 | 3514 1777 | 348 | 5141 | 12606 |
|  |  | 959 | 1777 | 35 | 1166 | 4744 |
|  | 394 | 8596 | ${ }_{4} 88$ | $994$ | 19198 | 53770 |

NEWBERN DISTRICT.


WILMINGTON DISTRICT.


FAYETTE DISTRICT.

(

SALISBURY DISTRICT.

| COUNTIES. |  | 第 | 苍 |  | - | E |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| $\text { Salifbury, • • • }\}$ | 3288 | 3837 |  | 97 | 1742 | 15828 |
| Mecklenburgh, . . | 2378 |  |  |  | 1603 |  |
| Montgomery, | 1118 | 12.17 | 2239 | 3. | 858 | 5435 |
| Guilford, . | $\begin{array}{r}967 \\ \hline 607\end{array}$ | 1121 | 1798 | 5 | 834 | 4725 |
| Rockingham, | 1607 | ${ }^{1} 799$ | 3242 | 7 | 516 | 7191 |
| Surry, . | 1173 |  | 491 | 10 | 1100 | 6187. |
| tokes, | 1531 1846 | 1762 | 183 | 7 | 698 | 7191 |
| , | 1846 |  | 778 | 3 | 787 | 8528 |
|  |  |  |  |  |  |  |

MORGAN DISTRICT.


SUMMARY OF POPULATION.


To the return the following note was prefixed:
"The Marfhal begs leave to obferve, that the affifants having not returned the numbers of the different towns feparate from the
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Ee
counties
counties in which they were fituated, renders it out of his power te make a diftinet return of them, but is fatisfied that not one town in North-Carolina contains more than two thoufand inhabitants.

What is the prefent number of inhabitants cannot be determined with precifion ; but, on the moft moderate calculation, they muft be more than four hundred and feventy thoufand.

## RELIGION A'ND CHARACTER.

The weftern parts of this State, which have been fettled within the laft forty years, are chiefly inhabited by Prefbyterians from Pennfylvania, the deficendants of people from the north of Ireland, and are exceedingly attached to the doctrines, difcipline and ufages of the church of Scotland. They are a regular, induftrious people. Almoft all the inhabitants between the Catawba and Yadkin rivers are of this denomination, and they are in general suell fupplied with a fenfible and learned miniftry. There are interfperfed fome fettlements of Germans, both Lutherans and Calvinifts, but they have wery few minifters.

The Moravians have feverai flourifhing fettlements in this State, In $175^{7}$ they purchafed of Lord Granville one hundred thoufand acres of land, betwcen the Dan and Yadkin rivers, about ten miles fouth of Pilot mountain, in Surry county, and called it Wachovia, after an efiaie of Count Zinzendorf, in Auftria. In 1755 , this tract, by an agt of Affembly, was made a feparate parifh by the name of Dobb's parith. The firft fettlement, called Bethabara, was begun in ${ }^{\prime} 753^{\circ}$ by a number of the brethren from Penníylvania, in a very wild, uniahabied country, which, from that time, began to be rapidiy fettled by farmers trom the Niddle States.

In 1759 , Bethany, a regular village, was laid out and fettled. In 1766, sialem, which is now their principal fettiement, and nearly in the ce:er of Xachovia, was fettled by a collection of tradefmen. The fame conftitution and regulations are eftablifined here as in other regnlat settements of the united brethren. Befides, there are in Wachovia three churches, one in Friedland, one in Friedburg, and another at Lope, cach of which has a minifter of the brethren's chusch. Thefe people, by their induftry ad attention to various bracies of manuiaiure, are very ufeful to the country around then.

The Friceds, or Quakers, have a fetilement at New-Garden, in Guifud count, and teveral congregaions at Perquimins and Paf-
:
quotank. The Methodifts and Baptilts are numerous and increafing. Befides the denominations already mentioned, there is a very numerous body of people in this, and in all the Southern States, who cannot properly be claffed with any fect of Chriftians, having never made any profeffion of Chriftianity.

The inhabitants of Wilmington, Newbern, Edentoti, and Halifax diftricts, making about three-fifths of the State, once profeffed themfelves of the Epifcopal church; the clergy in thefe diftricts were chiefly miffionaries, and in forming their political attachments, at the commencement of the late war, perfonal fafety, or real intereft, or perhaps a conviction of the impoticy of oppofing Great-Britain, from whence they received their falaries, induced them almoft univerfally to declare themfelves in favour of the Britifh government, and to emigrate. There may be one or two of the original clergy remaining, but at prefent they have no particular paftoral charge; indeed the inhabitants in the diftricts above mentioned feem now to be making the experiment, whether Chriftianity can exift long in a country where there is no vifible Chriftian church : the Baptifts and Methodifts have fent a number of miffionary preachers into thefe diftricts, and fome of them have large congregations; it is probable, that one or the other of thefe denominations, and perhaps both, may acquire confiftency, and eftablifh permanent churches.

The North-Carolinians are moftly planters, and live from half a mile to three and four.miles from each other on their plantations; they lave a plentiful country, no ready market for their produce, little intercourfe with ftrangers, and a natural fondnefs for fociety, which induce them to be hofpitable to Atrangers.

The general topics of converfation among the men, when cards; the bottle, and occurrences of the day do not intervene, are negroes, the prices of indigo, rice, tobacco, \&c. They appear to have little tafte for the fciences.- Political inquiries and philofophical difquititions are attended to but by a few men of genius and induftry, and are too laborious at prefent for the minds of the people at large in this State. Lefs attention and refpect are paid to the women here, than in thofe parts of the United States where the inhabitants have made greater progrefs in the arts of civilifed life; indeed it is a truth confirmed by obfervation, that in proportion to the advancement of civilization, in the fame proportion will refpect for the women be increafed; fo that the progrefs of civilization in countries, in ftates $\boldsymbol{z}_{2}$ in towns, and in families, may be marked by the de-
gree of attention which is paid by hubands to their wives, and by the young men to the young women.

Temperance and induftry are not to be reckoned among the virtues of the North-Carolinians; the time which they wafte in drinking, idling and gambling, leaves them very little opportunity to improve their plantations or their minds; the improvement of the former is left to their overfeers and negroes; the improvement of the latter is too often neglected. Were the time which is thus wafted fpent in cultivating the foil, and in treafuring up knowledge, they might be both wealthy and learned; for they have a productive country, and are by no means deftitute of genius.

Time that is not employed in ftudy or ufeful labour, in every country, is generally fpent in hurtful or innocent exercifes, according to the cuftom of the place, or the tafte of the parties. The citizens of North-Carolina, who are not better employed, fpend their time in drinking, or gaming at cards and dice, cock-fighting or horferacing.

A ftrange and very barbarous practice prevailed among the lower clafs of the people before the revolution, in the back parts of Virginia, North and South Carolinas, and Georgia; it was called gouging, and was neither more nor lefs than a man, when boxing, putting out the eye of his antagonift with his thumb. How euick, gnder a mild and upright government, is the reformaiton of manners! In a particular county in this State, where, at the quarterly court twenty years ago, a day feldom paffed without ten or fifteen boxing matches; it is now a rare thing to hear of a fight.

North Carolina, as already obferved, has had a rapid growth; in the year 1710 it contained brot about twelve hundred fencible men; it is now, in point of numbers, the fourth State in the Union. During this amazing progrefs in population, which has been greatly aided by emigrations from Pennfylvania, Virginia, and other States, while each has been indeavouring to increafe hisofortune, the human mind, like an unweeded garden, has been futfered to fhoot up in wild diforcer. But when we confider, that, during the late revolution, this State produced many diftinguifhed patriots and politicians, that fhe fent her thoufands to the defence of Georgia and SouthCarolina, and gave occafional fuccours to Virginia; when we confider, too, the dificulties the had to encounter from a mixture of inhabitants, collected from different parts, ftrangers to each other,
and intent upon gain, we fhall find many things in their general character worthy of praife.

## TRADE AND MANUEACTURES.

A great proportion of the produce of the back country, confifting of tobacco, wheat, Indian corn, \&cc. is carried to market in South-Carolina and Virginia. The fouthern interior counties carry their produce to Charlefton; and the northern to Peterburgh in Virginia: The exports from the lower parts of the State are tar, pitch, turpentine, rofin, Indian corin, boards, fcantling, ftaves, fhingles, furs, tobacco, pork, lard, tallow, bees-wax, myrtle-wax, and a few other articles, amounting in the year, ending September 30th, 179 I , to five hundred and twenty-four thoufand five hundred and forty-eight dollars. Their trade is chiefly with the Weft-Indies and the northern States. $\therefore$ From the latter they receive flour ${ }_{2}$ cheefe, cyder, apples, "potatoes, iron wares, cabinet wares, hats, and dry goods of all kinds, imported from Great-Britain, France, and Holhand, teas, \&c. From the Weft-Indies, rum, fugar, and coffee.
It is no uncommon thing for the farmerto mark from five hundred to one thoufand caives in a year. No farther attention is paid to them till they are fit for fiaughter ; then they are taken up, killed, barreiled, and feat to the Wef-India market. Their pork is raifed with as little trouble; large quantities of mhich, before the war, were fent to New-England, particularly to Bofton and Salem.

The late war, by which North-Caroina was greatly convulfed, put a fop to feveral iron works. At prefent there are four or five fiernaces in the siate that are in blaft, and a proportionable number of forges. There is one in Guidiford county, one in Surry, and one in Wikes, all on the Yadkin, ard one in Lincoln. The quality of the iron is excellent.

One paper mill has lately been erected at Salem, by the Moraviaus, to great advantage.

## COLIEGES AND ACADEMIES.

The General Affembly of North-Carolina, in December, 1789 , paffed a law incorporating forty gentlemen, five from each ditrict, as truftees of the univerfity of North-Carolina; to this univerfity they gave, by a fubiequent law, all the debts due to the State from therifis or other holders of public money, and which had been due before the year 1783 ; they alfo gave it all eficheated property witbin the State.

State. Whenever the truftees fhall have collected a fufficient furm of the old debts, or from the fale of efcheated property, the value of which is confiderable, to pay the expenfe of erecting buildings: they are to fix on a proper place, and proceed in the finifhing of them : a confiderable quantity of land has already been given to the univerfity, and the General Affembly, in December, 1791, loaned five thoufand pounds to the truftees, to enable them to proceed immediately with the buildings.

There is a very good academy at Warrenton, ancther at Williamiborough in Granville, and three or four others in the State, of confiderable note.

## € ONSTITUTION.

 DECLARATION OF RIGHTS.I. That all political power is vefted in and derived from the people only.
II. That the people of this State ought to have the fole and exclufive right of regulating the internal government and police thereof.
III. That no man, or fet of men are entitled to exclufive or feparate emoluments or privileges from the community, but in confideration of public fervices.
IV. That the legiflative, executive, and fupreme judicial powers of government ought to be for ever feparate and dietinct from each ether.
V. That all powers of fufpending laws, or the execution of laws, by any authority, without the confent of the reprefentatives of the people, is injurious to their rights, and ought not to be exercifed.
$\therefore$ VI. That elections of members to ferve as reprefentatives in General Affembly ought be free.
VII. That in all criminal profecutions every man has a right to be informed of the accufation againft him, and to confront the accufers and witnefles with other teftimony, and fhall not be compelled to give evidence againft himfelf.
VIII. That no freeman fliall be put to anfwer any criminal charge but by indictment, prefentment, or impeachment.
IX. That no freeman fhall be convicted of any crime, but by the unanimpus verdict of a jury of good and lawful men, in open court, as heretofore ufed.
X. That exceffive bail hiall not be required, nor exceffive fines impoled, nor ciuel iounufual punifhments inflicted.
XI. That gene:al warrants, whereby an officer or meffenger may be commanded to fearch fufpected places without evidence of the faet committed, or to feize any perfon or perfons not named, whofe offences are not particularly defcribeci and fupported by evidence, are dangerous to liberty, and ought not to be granted.
XII. That no freeman ought to be taken, imprifoned, or diffeized of his freehold, liberties, or privileges, or outhawed or exiled, or in any manner deftroyed or deprived of his life, liberty, or property, but by the law of the land.
XIII. That every freeman reftrained of his liberty, is intitled to a remedy, to inquire into the lawfulnefs thereof, and to remove the fame if unlawful, fand that fuch remedy ought not to be denied or delayed.
XIV. That in all controverfies at law refpecting property, the ancient mode of trial by jury is one of the beft fecurities of the rights of the people, and ought to remain facred and inviolable.
XXV. That the freedom of the prefs is one of the great bulwarks of liberty, and therefore ought never to be reftrained.
XVI. That the people of this State ought not to be taxed, or made fubject to the payment of any impoft or duty, without the confent of themfelves, or their reprefentatives in General Affembly freely given.
XVII. That the people have a right to bear arms for the defence of the State; and as ftanding armies in time of peace are dangerous to liberty, they ought not to be kept up; and that the military fhould be kept under ftrict fubordination to, and governed by the civil power.
XVIII. That the people have a right to affemble together, to confult for their common good, to inftruct their reprefentatives, and to apply to the legilature for redrefs of grievances.
XIX. That all men have a natural and unaliemable righ. to wore fhip Almighty God according to the dictates of their own confciences.
XX. That for redreis of grievances, and for amencing and frengthening the laws, elections ought to be often held.
XXI. That a frequent recursence to fundamental principles is $a^{*}$ folutely neceffary to preferve the bleffings of liberty.
XXII. That no hereditary emolaments, privileges, or honours, ought to be granted or conferred in this State.
XXIII. That perpetuinies and monopolies are contrary to the genius of a free fitate, and ought not to be allowed.
XXIV. That retrofpective laws, punifhing facts committed before the exiftence of fuch laws, and by them only declared criminal, are oppreffive, unjuft, and incompatible with liberty, wherefore no cx fof fucto law ought to be made.
XXV. The property of the foil in a free government being one of the effential rights of the collective body of the people, it is neceffary, in order to avoid future difputes, that the limits of the State fhould be afcertained with precifion; and as the former temporary line between North and South-Carolina was confirmed and extended by commiffioners, appointed by the legiflatures of the two States, agreeable to the order of the late King George II. in council, that line, and that only, hould be efteemed the fouthern boundary of this State; that is to fay, beginning on the fea fide at a cedar ftake, at or near the morth of Little river, being the fouthern extremity of Brunfwirk county, and running from thence a north-weft courfe through the Boundary Houfe, which ftands in thirty-three degrees fifty-fix minutes, to thirty-five degrees north latitude, and from thence a welt courfe, fo far as is mentioned in the charter of King Charles II. to the late proprietors of Carolina. Therefore all the territory, feas, waters, and harbours, with their appurtenances, lying between the line above defribed, and the fouthern line of the State of Virginia, which begins on the fêa fhore, in thirty-fix degrees thirty minutes north latitude, and from thence runs weft, agreeable to the faid charter of King Charles, are the right and property of the people of this Stote, to be held by them in fovereignty; any partial line; without the confent of the legifiature of this State, at any time thereafter directed or laid out in any wife notwithitanding. Provided always, that this declaration of rights fhall not prejudice any nation or nations of Indians from enjoying fuch hunting groumds as may have been, or hereatief fhall be fecured to them by any former or future legiflature of this State. And provided alfo, That it fhall not be conftrued fo as in prevent the eitabilmment of one or more governments weftwarl of this State, by confent of the leginature. And provided further, Fhat nothing herein contained fhall affect the titles or poffefions of individuals,
tividuals, holding or claiming under the laws heretofore in force, or grants heretofore made by the late King George II. or his predecetfors, or the late lords proprietors; or any of them.

FRAME OF GOVERNMENT.
Whereas allegiance and protection are in their nature reciprocal, and the one fhould of right be refufed when the other is withdrawn; and whereas George the Third, King of Great-Eritain, and late fovereign of the Britifh American Colonies; hath not waly withdrawn from them his protection, but by an act of the Briifin legillature, declared the inhabitants of thefe States out of the protection of the Britifh crown; and all their property found upon the high feas liabile to be feized and confifcated to the ufes mentioned in the faid act ; and the faid George the Third has alfo fent fleets and armies to profecute a cruel iwar againft them, for the purpofe of reducing the inhabitants of the faid Colonies to a ftate of abject flavery; in confequence whereof, all government under the faid King within the faid Colonies hath ceafed, and a total diffolution of government in many of them hath taken place : and whereas the continental Congrefs hating confidered the premifes, and other previous violitions of the rights of the good people of America, have therefore declared, that the thirteen United Colonies are of right wholly abiolved from all allegiance to the Britifh crown, or any other foreign jurifdiction whatfoever; and that the faid Colonies now are; and for ever fhall be; free and independent States: wherefore, in our prefent fate, in order to prevent anarchy and confufion; it becomes neceffary that government fhould be eftablifhed in this State; therefore we, the reprefentatives of the freemen of North-Carolina; chofen and affembled in Congrefs, for the exprefs purpofe of framing a conftitution, under the authority of the people, moft conducive to their happinefs and profpèrity, do declare, that a government for this State fhall be eftablifhed in manner and form following; to wit :
I. That the legiflative authority fhall be vefted in two diftinct branches, both dependent on the fecple, to wit; a Senate, and House of Commons.
II. That the Senate thall be compofed of reprefentatives annuaily chofen by ballot, one for each county in the State.
III. That the Houfe of Commons thall be compofed of reprefentatives annually chofen by ballot, two for each county, and one for Voi. III.

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each of the towns of Edenton, Newbern, Wilmington, Salifbury, Hillfborough, and Hallifax.
IV. That the Senate and Houfe of Commons, affembled for the purpofe of legiflation; hall be denominated, Tae General Assembly.
V. That each member of the Senate fhall have ufually refided in the county in which he is chofen, for one year immediately preceding his election, and for the fame time thall have poffeffed, and continue to puffers, in the county which he reprefents, not lefs than three hundred acres of land in fee.
VI. That each member of the Houre of Commons fhall have uftially refided in the county in which he is chofen, for one year immediately preceding his election, and for fix months fhall have pofffed, and consinue to poffefs in the county which he reprefents; notlefs than one hundred acres of land in fee, or for the term of his ovin life.
VII. That all freemen of the age of twenty-one years, who have been inhabitants of any one county within the State twelve months immediately preceding the day of any election, and poffeffed of a freehold within the fame county, of fiftyacres of land for fix months next before, and at the day of election, fixall be entitled to vote for a member of the Senate.
VIII. That all freemen of the age of twenty-one years, who have been inhabitants of any county within the State twelve months immediately preceding the day of any election, and fhall have paid public taxes, fiail be entitled to vote for members of the Houfe of Commons for the county in which he refides.
IX. That all perfons poffeffed of a freehold in any town in this State having a fight of reprefentation, and alfo all freemen who have been inhabitants of any fuch town twelve months next before, and at the day of election, and thall have paid public taxes, fhall be entitled to vote for a member to reprefent fuch town in the Houfe of -Gommons. Provided always, That this fection frall not entitle any inhabitants of fuch town to vote for members of the Houfe of Commons for the county in which he mayrefide, nor any freeholder in fuch county who refides without or beyond the limits of fuch town, to vote for a member for faid town.
X. That the Senate and Houfe of Commons when met, fhall each have power to choofe a fpeaker, and other their officers; be judges of
the qualifications and election: of tacir members; fit upon their own adjournments from day to day; and prepare bills to be paffed into laws. The two Houfes fhall direct writs of election for fupplying intermediate vacancies, and fhall alfo jointly, by ballot, adjourn themfelves to any future day and place.
XI. That all bills fhall be read three times in each Houfe before they pafs into laws, and be figned by the fpeaker of both Houfes.
XII. That every perfon who fliall be chofen a member of the Senate or Houfe of Commons, or appointed to any office or place of truft, before taking his feat, or entering upon the èxecution of his office, fhall take an oath to the State, and all officets fhall alfo take an oath of office.
XIII. That the General Affembly fhall, by jdint ballot of both Houfes, appoint judges of the fupreme courts of. law and equity, judges of admiralty, and ā̀torney-general, who flall be commiffioned by the governor, and hold their offices during good bephaviour.
XIV. That the Senate and Houfe of Commons fhall have power to appoint the generals and field officers of the militia, andall officers of the regular army of this State.
XV. That the Senate and Houfe of Commons, jointly, at their firft meeting after each annual election, fhall by ballot elect a governor for one year, who fhall not be eligible to that office longer than three years in fix fucceffive years. That no perfon under thirty years of age, and who has not been a refident in this State above five years, and having in the State a freebold in lands and tenements above the value of one thoufand pounds, fhall be eligible as a governor.
XVI. That the Senate and Houfe of Commons, jointly, at their firft meeting after each annual èlection, fhall by ballot elect feven perfons to be a council of State for one year, who thalil advife the governor in the execution of his office, and that four members fhall be a quorum. Their advice and proceedings fhall be entered in a journal to , Idat be kept for that purpofe only, and figned by the members prefent, to any part of which any member prefent may enter his difent. And fuch journals thall be laid before the General Affembly, when called for by them.
XVII. That there fhall be a feal of this State, which fhall be kept bye the governor, and ufed by him as occafion may require; 能d fhat be Ef 2 called
called The Grcat Seal of the State of North-Carolina, and be affixed to all grants and commiffions.
XVIII. The governor for the time being flall be captain-general and commander in chief of the militia; and in the recefs of the Ge neral Affembly flall have power, by and with the ativice of the Council of State, to embody the militia for the public fafety.
XIX. That the governor for the time being fhall have power to draw for, and apply fuch fums of money as fhall be voted by the General Affembly for the contingencies of government, and be accountable to them for the fame. He alfo maj; by and with the advice of tie Council of State, lay embargoes, or prohibit the exportation of any commodity, for any term not exceeding thirty days at any one time, in the recefs of the General Affembly; and thall have the power of graning pardons and reprieves, except where the profecution thail be carried on by the General Affembly, or the law fhail otherwife direct; in which cafe he may, in the recefs, grant a reprieve until the next firting of the General Affembly; and may exercie all the other executive powers of government, limited and re: ftrained as by this Conftitution is mentioned, and according to the laws of the State. And on his death, inability, or abrence from the state, the fpeaker of the Senate for the time being, and in cafe of his death, inabily, or abfence from the State, the fpealier of the Houfe of Commons, fhall exercife the powers of governisent after fuch death, or during fuch abience or inability of the governor or fpeaker of the Senate, or until a new nomination is made by the General Affemble:
XX. That in every caie where any officer, the right of whofe appointment is by this Conititution vefted in tiae General Affemily, flail during their recefs die, or his office by other means become vacant, the governor fhall have power, with the advice of the Council of State, to fill up such vacancy by granting a temporary commiffion, which fhall expire at the end of the next feffion of the General Affembly.
XXI. That the governor, judges of the fupreme court of law and equity, judges of admiralty, and attorney-generak, thall have adequate falaries during their continuance in office.
XXII. That the General Affembly Mhait, by joint ballot of bath Houfes, annually appoint a treafurer or treafurers for this State.
XXIII. That the governor and other officers offending againft the State, by violating any part of this conflitution, mal-adminiftration, or corruption, may be profecuted on the impeachment of the General Affembly, or prefentment of the grand jury of any coirt of fupreme jurifdiction in this State.
XXIV. That the General Affembly fhall, by joint ballot of both Houfes, triennịally appoint a fecretary for this State.
XXV. That no perfons who heretofore have been, or hereafter may be receivers of public monies, thall have a feat in either Houfe lof General Affembiy, or be eligible to any office in this State, until fach perion fall have fully accounted for, and paid into the treafury all fums for which they may be accountable and liable.
XXVI. That no treafurer fhall have a feat either in the Senate, Houfe of Commons, or Council of State, during his continuance in that office, or before he fhall have finally fettled his accounts with the public for all the monies which may be in his hands, at the expiration of his office belonging to the State, and hath paid the fameinto the hands of the fucceeding treafurer.
XXVII. That no officer in the regular army or navy in the fervice and pay of the United States, of this or any other State, nor any contractor or agent for fupplying fuch army or navy with cloathing or. provifions, fhall have a feat either in the Senate, Houfe of Commons, or Council of State, or be eligible thereto; and any member of the Senate, Houre of Commons, or Council of State, being appointed to, and accepting of fuch office, fhall thereby vacate his feat.
XXVIII. That nemember of thê Council of State fall have a feat cither in the Senate of Houfe of Commons.
XXIX. That no judge of the fupreme court of law or equity, or judge of admiralty, hall have a feat in the Senate, Houfe of Commons, or Council of State.
XXX. That no fecretary of this State, attorney-general, or clerk of any court of record, fhall have a feat in the Senate ${ }_{2}$ Houfe of Commons, or Council of State,
XXXI. That no clergyman or preacher of the gofpel, of any denomination, fhall be capable of being a member of either the Senate, Houfe of Commons, or Council of State, while he continues in the exercife of the paftoral function.
XXXII. That no perfon who fhall deny the being of God, or the truth of the Proteftant religion, or the divine authority either of the Old or New Teftament, or who fhall hold religious principles incompatible with the freedom and fafety of the State, fhall be capable of Holding any office, or place of truft or profit in the civil department within this State.
XXXIII. That the juftices of the peace within their refpective counties in this State, fhall in future be recommended to the gover: nor for the time being, by the reprefentatives in General Affembly, and the governor flall commiffion them accordingly; and the juftices, when fo commiffioned, fhall hold their offices during good behaviour, and fhail not be removed from office by the General Affembly, unlefs for mifbehaviour, abfence, or inability.
XXXIV. That there fhall be no eftablifhment of any one religious church or denomination in this State in preference to any other; weither fhall any perfon, on any pretence whatfoever, be compelled to attend any place of worlhip contrary to his own faith or judgment; nor be obliged to pay for the purchafe of any glebe, or the builcing of any houfe of worfhip, or for the maintenance of any minifter or miniftry, contrary to what he believes right, or has voluntatarily and perionally engaged to perform ; but all perions fhall be at Hierty to exercife their own mode of worfhip. Provided, that nothing herein contained fhall be conftrued to exempt preachers of treafonable or feditious difcourfes from legal trial and punifhment.

- XXXV. That no perfon in this State fhali hold more than one lucrative office at any one time. Provided, that no appointment in the mititia, or the office of a juftice of the peace, finall be confidered as a iucrative ofice.
XXXVI. That all commifions and grants fhall run in the name of The State of North-Carolia, and bear teft, and be figned by the governor. Af writs fhall run in the fame manner, and bear teft, and be figned by the clerks of the refpective courts. Indictments fhall conclude, Againft ibe peace and dignity of tbe State.
XXXVII. That the delegates for this State to the Continental Congrefs, while neceffary, fhall be chofen annually by the General Affembly by ballot, but may be fuperfeded in the mean time in the fame manner; and no perfon thall be elected to ferve in that capacity for more than three years fucceffively.
XXXVIII. That there fhall be a fheriff, coroner, or coroners, and conftables, in each county within this State.
XXXIX. That the perfon of a debtor, where there is not a ftrong prefumption of fraud; thall not be continued in prifon, after delivering up, bona fides all his eftate, real and perfonal, for the ufe of his creditors; in fuch manner as thall be hereafter regulated by law. All prifoners flall be bailable by fufficient fureties; unlefs for capital offences, when the proof is evident, or the preIumption great.
XL. That every foreigner who comes to fettle in this State, having firft taken an oath of allegiance to the fame, may purchafe, or by other juft means acquire, hold and tansfer land, or other real eitate; and after one year's réfidence fhall be deemed a free citizen.
XLI. That a fehool or fchools naall be eftablifhed by the legiflature for the convenient infiruction of youth, with fuch falaries to the mafters, paid by the public, as may enable them to inftruct at low prices; and all ufeful learning fhall be duly encouraged and promoted in one or more univerfities.
XLII. That no purchafe of lands fhall be made of the Indian natives, but on behalf of the public, by authority of the General Affembly.
XLIII. That the future legiflature of this State fhall regulate entails in fuch manner as to prevent perpetuities.
XLIV. That the declaration of rights is hereby declared to be part of the Conftitution of this State, and ought never to be violated on any pretence whatfoever.
XLV. That any member of either Houfe of General Affernbly fhall have liberty to diffent from, and proteft againft any act or refolve which he may think injurious to the public, or any individual, and have the reafons of his diffent entered on the journals.
XLVI. That neither Houfe of the General Affembly fhall proceed upon public bufinefs; unlefs a majority of all the members of fuch Houfe are actually prefent ; and that upon a motion made and feconded, the yeas and nays upon any queftion fhall be taken and entered on the journals; and that the journals of the proceedings of both Houfes of the General Affembly fhall be printed and made pub. Hic immediately after their adjournment.

This Conftitution is not intended to preclude the prefent Con. grefs from making a temporary provifion for the well-ordering of this State, until the General Affombly fhall eftablifh a government agreeable to the mode herein before defcribed.

224 GENERAI DESCRIPTION, \& C 10 .
This declaration of rights and frame of government was agreed to and refolved upon by the reprefentatives of the freemen of the State of North-Carolina, elected and chofen for that particular purpofe; in Congrefs affembled, at Halifax, December 18, 1776.
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# TERRITORY SOUTH of the OHIO, 

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## TENNESSEE GOVERNMENT:

## SITUATION; EXTENT, AND BOUNDARIES.

THIS part of the territory of the United States is fituated between $6^{\circ}: 20^{\prime}$ and $16^{\circ} 30^{\prime}$ weft longitude from Philadelphia, and $35^{\circ}$ and $36^{\circ}, 30^{\prime}$ north latitude; it extends three hundred and fixty miles in length and one hundred and five miles in breadth, and contains the whole of the tract of country ceded to the United States by the State of North-Carolinia in the year i789. It is bounded on the north by the State of Kentucky and part of Virginia, on the eaft by a range of mountains, which feparates it from North-Carolina,* on the fouth by South-Carolina and Georgia, anf on the weft by the Miffiffippi.

## CLIMATE.

The climate in the general is moderate and healthy. In the tract lying between the Great Ifland, as it is called, and the Kanhawa, the fummers are remarkably cool, and the air rather moift. Southweft of this; as far as the Indian towns, the climate is much warmer; and the foil better adapted to the prodactions of the Southern States.

The difeafes to which adults are moft liable, are pleurifies, rheumatifms, and fometimes, though rarely, agues and fevers : fo healthy have been the inhabitants, that from the firft fettlement of the country to 1788 , not a fingle phyfician had fettled among them. It is to the inhabitants a real advantage, that they are almoft beyond the reach of thofe luxuries which are enjoyed, and thofe epidemical difeafes which ate confequently frequent, in populous towns on the fea

* This range of mountains are known by the various names of the Allegany, Stone, Yellow, Iron, and Bald mountains.
Vol. III.
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## GENERAL DESCRIPTION

ccaft. An inhabitant of this diftrict writes, "Our phyficians are, a fine climate, healthy robuft mothers and fathers, plain and plentiful diet, and enough of exercife: there is not a regular bred phyfician refiding in the whole diftrict."

## FACE OF THE COUNTRY, \&c.

Cumberland mountain, in its whole extent, from the Great Kanhawa to the Tenneffee, confifts of the mof ftupendous piles of craggy rocks of any mountain in the weftern country ; in feveral parts of it, for miles, it is inacceffible even to the indians, on foot; in one place particularly, near the fummit of the mountain, there is a moft remarkable ledge of rocks of about thirty miles in length and two hundred feet thick, flewing a perpendicular face to the fouth-eaft more noble and grand than any artificial fortification in the known world, and apparently equal in point of regularity. Through this itupendous pile, according to a modern bypothefis, had the waters of all the upper branches of the Tenneffee to force their way; the attempt would have been impracticable at any other place than the one mentioned, for more than one hundred miles eaftwardly. Here then feems to have been the chafm, left by the Creator, to convey off thofe waters which mut otherwife have overflowed, and rendered ufelefs a vaft tract of valuable country enclofed within the mountains.

The Tenneffee, called alio the Cherokee, and abfurdly the Hogohege river, is the largeft branch of the Ohio; it rifes in the mountains of Virginia, latitude $37^{\circ}$, and purfues a courfe of about one thoufand miles fouth and fouth-weft, nearly to latitude $34^{\circ}$, receiving from both fides a number of large tributary ftreams; it then wheels about to the north in a circuitous courfe, and mingles with the Ohio, nearly fixty miles from its mouth ; from its entrance into the Ohio to the Mufcle fhoals, a diftance of two hundred and fifty miles, the current is very gentle, and the river deep enough, at all feafons, for the largeft row boats: the Mufcle fhoals are about twenty miles in. length. At this place the river fpreads to the width of three miles, and forms a number of iflands, and is of dificult paffage, except when there is a fwell in the river. From thefe fhoals to the whirl or fuck, the place where the river breaks through the Great ridge, or Cumberland mountain, is two hundred and fifty miles, the navigation alil the way excellent.

The Whirl, as it is called, is in about latitude $35^{\circ}$; it is reckoned a greater curiofity than the burfing of the Potomack through the Blue ridge. The river, which a few miles above is half a mile wide, is here compreffed to the width of about one hundred yards; juft as it enters the mountain, a large rock projects from the northern fhore in an oblique direction, which renders the be? of the river ftill narrowcr, and caufes a fudden bend; the water of the river is, of courfe, thrown with great rapidity againft the fouthern fhore, whence it bounds round the point of the rock and produces the whirl, which is about eighty yards in circumference. Canoes have often been carried into this whirl, and efcaped by the dexterity of the rowers without damage. In lefs than a mile below the whirl the river fpreads into its common width, and, except the Mufcle fhoals aiready mentionec, flows beautiful and placid till it mingles with the Ohio.

Six miles above the whirl are the Chiccamogga towns, on the banks of the river, and of a large creek of the fame name; from thefe towns to the mouth of the Hiwaffee is fixty miles by water, and about forty by land; this river is a fouth branch of the Tenneffee, and navigable till it penetrates the mountains on its fouth fice. The climate, the fine fprings, and fertile plains, render the banks of this river a moft delightful piace of fettlement. From a branch of the Hiwaffee, called Amoia, there is but a fhort portage to a branch of the Mobile, and the road all the diftance firm and level.
Paffing up the Tenneffee, fixty miles from the mouth of the river Hiwaffee, you come to the mouth of Pelefon or Clinch river, from the north; which is large and navigable for boats upyards of two hundred miles, receiving in its courfe, befides inferior ffreams, Powell's river, which is nearly as large as the main river, and boatable for one hundred miles: this laft-mentioned river runs through Powell's valley, an excellent tract of country abounding with fine fprings.
From the Pelefon to the junction of the Holftein and Tenneffee is computed forty miles; this laft is the branch which formerly gave its name to the main river, not from its fize, but from its notoriety, having on its banks a vaft number of Indian villages, and the chief town of the Cherokee Indians, called Chota, and was therefore called Cherokee river; but the name of Tenneffee has of late obtained a preference; it croffes the valley at nearly right angles with
the mountains, and has on its banks a number of beautiful plains, which are chiefly improved as corn fields by the Indians. In ${ }^{7788}$, the whites had advanced their fettlements within ten miles of the Indian villages. Forty miles from the Tenneffee, up the Holftein branch, comes in Frank river, vulgarly called French Broad, four or five hundred yards wide; thence, purfuing the Holftein two hundred miles, you come to Long-Ifind, which is the higheft navigation yet ufed; thence about one hundred miles is the fource of the river. One mile below Long-Ifland comes in North-Holftein, and twenty miles above it the Wattago; the former is one hundred yards wide at its mouth, and, with a finall expenfe, might be made navigable to Campbell's Salines, feventy iniles farther up. In the Tenneffee and its upper barches are great numbers of filh, fome of which are very large and of an excellent favour.

The head waters of the Great Kanhawa are in the weftern part of North-Carolina, in the moft eaftern ridge of the Allegany or Appalachian mountains, and fouth of the $3^{6}$ of latitude. Its head branches encircle, thofe of the Holftein, from which they are feparated by the Iron mountain, through which it paffes, ten miles above the lead mines; thence fleering its courfe along the foot of the Allegany mountain, until it receives Little river from the eaft, it turns to the north, which is its general courfe till it meets the Ohio. About fixty miles from Little river it recei:es Green Briar river from the eaft, which is the only confiderable tributary itream in all that difance. About forty miles below the mouth of Green Briar river, in Virginia, in the Kanhawa, is a remarkable cataract. A larse rock, a little elevated in the middle, croffes the bed of the river, over which the water floots and falls about fifty feet perpendicularly, except at one fide, where the defcent is more gradual.

The Shawanhee, now called Cumberland river, of the fouthern branches of the Ohio, is next in fize to the Teuneffee, and extends eaftwardly nearly as far, but runs in a much more direct courfe; it is navigable for fmall craft as far as Nafluville; from the fouth it receives Harper's, Coney, Obey's and Clear Fork rivers; and from the north, Red and Rock Caftle rivers, befides many fmaller ftreams.

Of this territory, above half is covered with mountains which are uninhabitable; fome of thefe, particularly Cumberland, or Great Laurel ridge, are the moft ftupendous piles in the United States ; they abound with ginfeng and ftone coal. Clinch mountain is fouth
of thefe, in which Eurk's garden and Morris's nob might be defcribed as curiofities.

The Iron mountain, which conftitutes the boundary between this diftrict and North-Carolina, extends from near the lead mines, on the Kanhawa, through the Cherokee county, to the fouth of Chota, and terminates near the fources of the Mobile. The caverns and cafcades in thefe mountains are innumerable.

## SOIL AND PRODUCTIONS.

The farmers on Cumberland river, for the fake of defcribing their lands; diftinguifh them by firft, fecond, and third quality. Land of the firft quality will bear Indian corn or hemp, but it will not bear wheat without great reduction. Land of the fecond quality does not bear wheat to advantage until it has been reduced by two or three crops of corn, hemp, tobacco or cotton. Land of the third bears every kind of grain that is ufually fown on dry ground in the Atlantic States. It is agreed by all who have vifited the Cumberiand fettlement, that one hundred bufhels of Indian corn are frequently gathered from an acre of their beft land; fixty or feventy bufhels from an acre is yery common, but the farmer who expects to gather fuch a crop muft be careful, while the corn is folt, to guard it againit bears and racoons. Wheat, barley, oats, rye, buck-wheat, Indian corn, peafe, beans, potatoes, flax, hemp, tobacco, indigo, rice and cotton, have already been planted in that fettlement, and they 1 thrive in great perfection; the ufual crop of cotton is eight hundred pounds to the acre; the ftaple is long and fine. It is alledged, however, that the lands on the finall rivers that run into the Mifforippi, have a decided preference to thofe on the Cumberland river, for the production of cotton and indigo. No experiments have been made on land near the Miffiffippi within the ceded territory; but there is a fimall fettlement farther down the river, within the limiss of the United States, on a fimilar foil, where whe growth and quality of cotton is fo remargable, that its culture is more profitable than any other crop. The foil on thofe rivers is deep and light, having a finall mixture of fand with a black earth; hence, as the planters alledge, it proves favourable to the culture of all kinds of roots, as well as of indigo and cotton.

The lands on the waters of Tenneffee and Cumberland rivers are generally well timbered; in fome places there are glades of rich
land withnut timber, but thefe are not frequent nor large. The general growth is poplar, hickory, black walnut, buck eye, or the horfe chefnut, fycamore, locuft and the fugar mapic. The undergrowth, in many places, is cane fifteen or twenty feet high, fo clofe together as to exclude all other plants; where the cane does not abound, we find red bud, wild plum, fpice wood, red and white mulberry, ginfeng, Virginia and Seneka fnake root, angelica, fweet anife, ginger and wild hops. The glades are covered with clover, wild rye, buffalo grais and pea vine. On the hills, at the head of rivers, we find ftately red cedars; many of thefe trees are four fect in diameter, and forty fect clear of limbs.

A few years fince, this country abounded with large herds of wild cattle, improperly called buffaloes; but the improvident or ill-difpofed among the firft fetilers have deftroyed multitudes of them out of mere wantonnefs; they are fill to be found on fome of the fouth branches of Cumberland river. Elk, or moofe, are feen in many places, chiefly among the mountains. The deer are become comparatively farce; fo that no perfon makes a bufinefs of hunting them for their ikins only. Enough of bears and wolves yet remain, Beavers and otters are caught in plenty in the upper branches of Cumberland and Kentucky rivers.

They have pheafants, partridges or quails, and turkies in abundance through the jear. During the winter their waters are covered with fwans, wild geefe, brant and duck. Cat-fifin have been caught in thofe rivers that weighed above one hundred pounds, and perch that weighed above twenty pounds.

The mammoth appears to have been an inhabitant of this country, as his bones have been dug up by labourers at Campbell's Sa lines, on North-Holfein, when finking falt pits; they were from three to feven feet below the furface of the earth.

Campbell's falines are te the ones that have yet been difcoverch on the upper branches of the Tenneffee and on this fide the wildernefs, though great fearch has been made for them. The tract which contains thefe falines is a great natural curiofity; it was difcovered by Captain Charles Campbell about rity, who was one of the firit explorers of the weftern country. In 1753 , he procured a patent for it from the governor of Virginia. His fon, the late General William Camplell, who behaved fo gallantly in the American war in the years 17 So and $17 \mathrm{~S}_{\mathrm{t}}$, became owner of it on his death. But it was not till the time of his death, when falt was very farce and
cear, that falt water was difcovered, and falt made by a poor man; fince that time, under the direction of Colonel Arthur Camphell, it has been improved to a confiderable extent, and many thoufands of inhabitants are fupplied from it with falt of a fuperior quality, and at a low price. The tract confifts of about three hundred acres of flat marnh land, of as rich a foil as can be imagined. in this flat, pits are fank in order to obtain the falt water; the beft is found from thirty to forty feet deep. Afier pafing through the rich foil or mud, from fix to ten feet, you come to a very brittle lime-ftone rock, with cracks or chafms, through which the falt water iffues into the pits, whence it is drawn by buckets and put into the boilers, which are placed in furnaces adjoining the pits. The hills that furround this flat are covered with fine timber, and not far diflant a coal mine has been difcovered.

On Frank river, about thirty miles in a direct line from its mouth, a large, clear, medicinal fpring has lately been difoovered, which, on experiment, has been found to relieve various complaints of the human body; its temperature rather exceeds blood heat.

On the fame river, nearer its mouth, a valuable lead mine has been diicovered.

On the banks of the Holftein are many mines of iron ore, of the beft kind, fome of winich have been opened and worked to advantage, and enough might be made to fupply the whole weftern country: thefe mines are the more valuable, as there is faid to be none of this ore near the Miffffippi, and very little north of the Ohio.
Up the Hiwaffee river, in the mountains on the fouth fide, a mine has been difcovered and ore taken, from which, it is faid, gold was extraited by an artift, while the Britifh were in poffeffion of Georgia: it is certain, that but few Indians know the fpot, and thofe who do are very anxious to keep it a fecret: the gentleman who gave this information has been within view of the place. The mountain is very high and barren, and has feveral of the appearances defcribed by mineralifts. The difcovery was made by means of the river undermining the bafe of a large cliff or fpur of the mountain, which occafioped a great column of the earth or rock to tumble into the water; this dirrupture difcovered the vein of yellow metal at a great depth.

## CIVIL DIVISIONS AND CHIEF TOWNS.

This territory is divided into two diftricts, each of which is agaits divided into counties as follows:

WASHINGTON DISTRICT.

Warhington,
Sulivan,

- Sulivan,

Greene, Hawkins,

South, of French Broad.

## MERO DISTRICT.

Davidfon,
Sumner,
Tenneffee.
The chief towns are Nafiville and Abingdon.

## NASHVILLE.

This is the Mire town of Davidfon county, and is the largeft town in the territory. The courts are held here; it has two houfes for public worfhip, and a handfomely endowed academy, eftablifhed in 1786.

ABINGDON.
Abingdon is the county town of Wafhington county: it contained in $I_{7} 88$ about twenty houfes, and was rapidly increafing: it is about two hundred and fixty miles from Richmond in Virginia, in a direct line, and three hundred and ten as the road runs, bearing a little to the fouth of weft latitude $3^{6^{\prime}} 3^{\prime}$.
ROADS.

The following are the diftances on the new road from Nafhville, in Davidion county, to Fort Campbell, near the junction of Holitein river with the Tenneffee.


By this new road, a pleafant paffage may be had to the weftern. country with carriages, as there will be only the Cumberland mountain to pals, and that is eafy of afcent ; and beyond it, the road is generally level and firm, abounding with fine frings of water.

## POPULATION.

In 176 , there were but about ten families fettled weft of the Kanhawa, fo many had joined them in 1773 , that the fettlement was erected into a county, and in 1776 , again fubdivided into three.In 1y88, the number of inhabitants was reckoned at forty thoufand: they muft have greatly increafed fince that period-the following is the return made by the governor in 179 I :

WASHINGTON DISTRICT.

| COUNTIES. |  |  |  |  | 家. | + |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Warhington | 1009 | 1792 | 2524 | 12. | 535 | 5872 |
| Sulivan . - | 806 | 1242 | 1995 | 107 | 297 | 4447 |
| Greene - | 1293 | 2374 | 3580 | 40 | 454 | \% 741 |
| Hawkins . . | 1204 | 1970 | 2921 | 68 | 807 | 6970 |
| South of French Broad | 68 I | 1082 | 1627 | 66 | 163 | 3619 |
|  | 4993 | 8460 | 12647 | 293 | 2256 | 286 |
| MERO DISTRICT. |  |  |  |  |  |  |
| Davidfon . . . .Sumnér . . . .Tenneffee . . . . . |  | 855 | 1288 | 18 | 659 | 3459 |
|  | 404 | 582 | 854 | 8 | 348 | 2196 |
|  | 235 | 380 | 576 | 42 | $\pm 54$ | 1387 |
|  | 12; 8 | 1817 | 2718 | 68 | 1161 | 7042 |

To this return the following note was prefixed: There are feveral captains who have not as yet returned the fcbedules of the numbers of their diftricts, namely;-in Greene county, three-in Daridfon, one-and South of French Broad, one diftrict.

Though it is manifeft the deficiency in this return is great, ret we have not fafficient data to determine it, but we may reafonably suppofe the prefent number of inhabitants to exceed fixty thoufand.

In 1798, the militia of this diftrict amounted to between feven and eight thoufand effective men, who twere principally armed with rifes. It is fuppoted that their number is increafed to nearly double fince that period.

## RELIGION AND CHARACTER.

The Prefbyterians are the prevailing denomination of Chrifians in :his diftriat : they have a Prefoytery, called the Abington PrefBytery, efiablithed by act of fynod, which, in 5788 , confitted of twenty-
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twenty-three large congregations, who were then fupplied by only fix minifters. There are alfo fome of the Baptifts and Methodift denominations.
The inhabitants of this diffrict emigrated chiefly from Pennfylvania, and that part of Virginia which lies weft of the Blue ridge. The anceftors of thefe people were generally of the Scotch nation, fome of whom emigrated firf to Ireland, and from thence to America. A few Germans and Englifl are intermixed. The proportion of the whites to the blacks in this diftrict, judging from the foregoing insperfect cenfus, is as ten to one. In ${ }^{1788}$, it was thought there were twenty white perfons to one negroe. The erection of this territory into a feparate government, it is believed, will tend to leffen the ne-. groe population.
There is nothing in the character of this people that diftinguifhes them from the fettlers of new countries in general. Among the bulk of the inhabitants a great fimplicity of manners prevails; duplicity, or the etiquette of cities and populous places, is unknown among them. If a man deceives another, he is deemed and called a liar; and it frequently happens that " a bloody nofe" is the confequence. Wreftling, jumping, running foot races, and playing at ball, are the common diverfions. Dancing is coming into falhion. Card playing is a rare amufement. The hunting fhirt is fill worn by the militia on duty, and by hunters in purfuit of game. At home, and at public affemblies, they drefs like the Virginians.
Great was the damage fuftained by the inhabitants of this country during the war, occafioned by the incurfions of the Indians; and it is much to their honour, that when they were offered protection by the Britif, in the early ftage of the war, they nobly refured it.

## COMMERCE.

As the waters of the Cumberland from Nafhville, and of the Tenneffee from the Mufcle fhoals to the Ohio, are navigable to the Ohio and Miffifippi, the people of courfe, who live in the interior of the country, have the fame advantages of water conveyance for trade, as thofe who live on the Ohio or Miffiffippi, to New-Orleans or elfexhere.
Befides, there is another probable avenue through which trade will be carried on with this country, which isfrom Mobile up the waters of the Mobile river as far as it is navigables' thence by a land carriage of about fifty miles, at moft, to Ocochappo srcek, which
empties into the Tenneffee at the lower end of the Mufcle fhoals. The mouth of this creek is the center of a piece of ground, the diameter of which is five miles, ceded by the fouthern Indians at the treaty of Hopwell, on Keowee, to the United States, for the eftab: lifhment of trading pofts.

This country furnifhes many valuable articles of export, fuch as fine waggon and faddle horfes, beef, cattle, ginfeng, deer fkins and furs, cotton, hemp, and flax, which may be tranfported by land 3 alfo iron, lumber, pork, and flour, which. might be exported in great quantities, if the navigation of the Miffiffippi were opened; but there are few of the inhabitants who underftand commerce, or are poffeffed of proper capitals; of courfe it is badly managed: land jobbing engroffes too much of the attention of the inhabitants. The degraded ftate of commerce has rendered neceffary a general attention to home manufactures ; and it is to be hoped that the eyes of the people will foon be opened to their true intereft, and agriculture, commerce, and manufactures, each receive proper attention.

## LEARNING AND LITERATURE.

The inhabitants of this diftrict have not been inattentive to the in: terefts of fcience. An academy and' feveral grammar fchools have been eftablifhed; and a fociety, who ftile themfelves, ": A Society for promoting Ufeful Knowledge :" it is of modern date, but much pood is expected from it. A tafte for literature is increafing amon them.
government is fimilar to that eftablifined by Congrefs in the territory of the United States, north-weft of the Ohio. The gon vernor is the executive, and, in his abfence, the fecretary, and the governor and three judges the legiflative power in the diftrict.
The public revenue amounts to about five or fix thoufand pounds, raifed chiely by a tax on flaves, lands, and horfes.

> INDIANS.

The Indian tribes, within and in the vicinity of this diftrict, are the Cherokees and Chicafaws. The Cherokees have been a warlike and numerous nation; but by continual wars, in which it has been their deftiny to be engaged with the northern Indian tribes, they were reduced, at the commencement of the laft war, to about two thoufand
thoufand fighting men; fince which they have been reduced more than one half, and have become weak and pufillanimous.

The Chicafaws, of all the Indian tribes within the limits of the United States, merit the moft from the Americans, having at all times maintained a brotherly attachment to them : they glory in faying, that they never fhed the blood of an Anglo-American. There is fo great an affinity between the Chicafaw and Choctarw languages, that the common people can converfe together, each fpeaking in his own dialect. They are a perfonable people, and have an opennefs in their countenances and behaviour, uncommon among favages, Thefe nations fay, they are the remnant of a great nation that once lived far to the weft, which was deffroyed by the Spaniards, for whom they ftill retain an hereditary hatred. Would it not be the policy of Congrefs to treat with thefe nations? and might not a reciprocal friendhip be mutually ferviceable to the Union and the Indians?

## STATE OF

## SOUTH-CAROLINA.

## SITUATION, EXTENT, AND BOUNDARIES.

THIS State is fituated between $32^{\circ}$ and $35^{\circ}$ north latitude, and $4^{a}$ and $9^{\circ}$. weft longitude from Philadelphia. Its length is two hundred miles, and its breadth one hundred and twenty-five. It is bounded on the north by North-Carolina, on the eaft by the Atlantic ocean, on the fouth-weft and fouth by Savannah river, and a branch of its head waters called Tugulo river, which faid rivers divide it from the State of Georgia. *

## CLIMATE.

The climate of this State is different in different parts: along the fea coant, bilious difeafes, and fevers of various kinds, are prevalent

[^28]between July and October. The probability of dying is much greater between the 20th of June and the 2oth of Oetober, than in the other eight months in the year.

One caule of thefe difeafes is, a low marfhy country, which is overflowed for the fake of cultivating rice. The exhalations from thefe ftagnated waters, from the rivers and from the neighbouring ocean, and the profufe perfpiration of vegetables of all kinds, which 'cover the ground, fill the air with meifture : this moifture falls in frequent rains and copious dews. From actual obfervation it has been found that the average annual fall of rain for ten years was fortytwo inches, without regarding the moifture that fell in fogs and dews. The great heat of the day relaxes the body, and the agreeable coolnefs of the evening iavites to an expofure to thefe heavy dews.

The difagreeable effects of this climate; experience has proved, might in a great meafure be avoided by thofe inhabitants, whofecir. cumftances will admit of their removal from the neighbourhood of the rice fwamps to healthier fituations, during the months of July , Auguft, September, and October; and in the worft fituations, by temperance and care. Violent exercife on horfeback, but chiefly, expofure to the meridian rays of the fun, fudden fhowers of rain, and the night air, are too frequently the caufes of fevers and other diforders. Would the fportfmen deny themfelves, during the fall months, their favourite amufements of hunting and fifhing, or confine themfelves to a very few hours, in the morning or evening; would the induftrious planter vifit his fields only at the fame hours; or would the poorer clafs of people pay due attention to their manner of living, and obferve the precautions recommended to them by men of knowledge and experience, much ficknefs and many diftreffing events might be prevented. The upper country, fituated in the medium between extreme heat and cold, is as healthful as any part of the United States.

FACE OF THE COUNTRY, SEA COAST, \&c.
The whole State, to the diftance of eighty miles from the fea, is level, and almoft without a ftone. In this diftance, by a gradual afcent from the fea coaft, the land rifes about one hundred and ninety feet. Here, if you proceed in a W. N. W. courfe from Charlefton, commences a curioully uneven country, prefenting a profpett fomething like that of a high fwelling fea, formed by a
prodigious number of fmall fand hills. Some little herbage, and $\dot{\text { a }}$ few fmall.pines grow, even on this foil. The inhabitants are but few; and have but a fcanty fubfiftence on corn and fiweet potatoes, which grow here tolerably well. This curious country continues for fixty miles, till you arrive at a place called the Ridge, one hundred and forty miles from Charlefton. This ridge is a remarkable tract of high ground, as you approach it from the fea, but level as you advance north-weft from its fummit. It is a fine high, healthy belt of land, well watered, and of a good foil, and extends from the Savannah to Broad river, in about $6^{\circ} 3^{\prime}{ }^{\prime}$ weft longitude from Philadelphia. Beyond this ridge commences a country exactly refembling the northern States. Here hills and dales, with all their verdure and variegated beauty, prefent themfelves to the eyc. Wheat fields; which are rare in the low country, begin to be common. Here Heaven has beftowed its bleffing with a moft bounteous hand. The air is much more temperate and healthful than nearer the fea. The hills are covered with valuable woods; the vallies watered with beautiful rivers, and the fertility of the foil is equal to every vegetable production. This, by way of diftinction, is called the Upper Country; where are different modes and different articles of cultivation; where the manners of the people, and even their language, have a different tone. The land ftill rifes by a gradual afcent; each fucceeding hill - Erlooks that which immediately precedes it, till, having advanced two hundred and twenty miles in a north-weft direction from Charlefton, the clevation of the land above the fea coaft is found to be eight hundred feet. Here a mountainous country commences with the Tryon and Hogback mountains; the elevation of which, above their bafe, is three thoufand eight hundred and forty feet, and above the fea coaft four thoufand fix hundred and forty. From the top of thefe mountains there is an extenfive view of this State, North-Carolina, and Georgia: and as no object intervenes to obftruct the view, a man with telefcopic eyes might difcern veffels at fea. The mountains weft and north-weft rife much higher than thefe, and form a ridge which divides the waters of Tenbeffee and Santee rivers.
This State is watered by four large navigable rivers, befides a great number of fmaller onćs, which are paffable in boats. The river Savannah wafhes it in its whole length from fouth-eaft to north-weft. The Edifto rifes in two brancies from a remarkable ridge in the interior part of the State. Thefe branches unite below Orangeburgh, which ftandsen the North Forb, and form Edifferiver, which, having
paffed
Edifto
Sant the oce hundre branche branch the Cat branche into En the celet
Pedec river: ceiving it joins fiteams, ftands, municate from va ters whi the Mififi
The are Wak Thefe ri quantity
in extrao
In the a flort berless cr comes do the fea: May, Ne flows mo
A. com Cooper a The fum fifty-five $t$ five per ce vanced by Vol. I.
paffed Jackfonfburgh, leaving it on the fouth, branches and embraces Edifto ifland.

Santee is the largeft and longeft river in this State: it empties into the ocean by two mouths, a little fouth of George-town. About one hundred and twenty miles in a direct line from its mouth, it branches into the Congaree and Wateree; the latter or northern branch paffes the Catabaw nation of Indians, and bears the name of the Catabaw river from this fettlement to its fource. The Congaree branches into Saluda and Broad rivers. Broad river again branches into Enoree, Tyger, and Pacolet rivers, on the latter of which are the celebrated Pacolet fprings.

Pedee river rifes in North-Carolina, where it is called Yadkin river: in this State, however, it takes the name of Pedee; and, receiving the waters of Lynche's creek, Little Pedee, and Black river, it joins the Wakkamaw river, near George-town. Thefe united ftreams, with the acceffion of a finall creek, on which George-town ftands, form Winyaw bay, which, about twelve miles below, communicates with the ocean. All thefe rivers, Edifto excepted, rife from various fources in that ridge of mountains which divides the waters which flow into the Atlantic ocean, from thofe which fall into the Mifififippi.

The rivers of a fecondary fize, as you pafs from north to fouth, are Wakkamaw, Black river, Cooper, Afhepoo, and Combahee. Thefe rivers afford, to the proprietors of their banks, a confiderable quantity of tide fwamp or rice land, Hooded from the rivers, except in extraordinary droughts.

In the third clafs are comprehended thofe rivers which extend but a flort diffance from the ocean, and ferve, by branching into numberlefs creeks, as drains to take off the quantity of rain water which comes down from the large inland fwamps; or are merely arms of the fea: of this kind are Afhley, Stono, Coofaw, Broad, Colleton, May, New, and Right's rivers. The tide, in no part of this State, flows more than twenty five miles from the fea.

A company has been incorporated for the purpofe of connecting Cooper and Santee rivers by a canal of twenty-one miles in length. The fum fuppofed to be neceffary to complete this extenfive work is fifty-five thoufand fix hundred and twenty pounds fterling. Twentyfive per cent. are allowed by the legiflature in tolls for all monies advanced by ftockholders. The advantage of a canal at this place, to VoL. III. $\quad$ I. . one
one who infpects a map of the Carolinas, muft appear to be great, both to the public and to the proprietors.

The only harbours of note are thofe of Charlefton, Port Royal, and George-town. Charlefton harbour is fpacious, convenient, and fafe: it is formed by the junction of Afhley and Cooper rivers: its entrance is guarded by fort Johnfon. Twelve miles from the city is a bar, over which are four channels; one by the name of Ship Channel, has eighteen feet water; another fixteen and a half; the other two are for fmaller veffels. The tides sife from five to eight feet. Port Royal has an excellent harbour, of fufficient extent to contain the largeft fleet in the world.
The bar at the entrance of Winyaw bay, which leads to Georgetornn, does not admit of veffels drawing more than eleven feet water; and is, in many refpects, a very dangerous place. This circumftance has proved injurious to the growth of George-town, which is otherwife exceedingly well fituated for all the purpofes of an extenfive trade.

The fea coaft is borjered with a chain of fine fea iflands, around which the fea flows, opening an excellent inland navigation for the conveyance of produce to market.

North of Charlefton harbour lie Bull's, Dewee's, and Sullivan's iflands, which form the north part of the harbour. James ifland lies on the other fide of the harbour, oppofite Charlefton, containing about fifty families. Further fouth-weft is John's ifland, larger than James; Stono river, which forms a convenient and fafe harbour, divides thefe iflands. Contiguous to John's ifland, and connected with it by a bridge, is Wadmelarv ; eaft of which are the fmall ines of Keyway and Simmon. Between thefe and Edifto illand is N. Edifto inlet, shich alfo affords a good harbour for veffels of eafy draft of water. South of Edifto ifland is $S$. Edifto inlet, through which enter, from the northward, all the veffels bound to Beaufort, Ahepog, Combahee and Coofaw.

On the fouth-welt fide of St. Helena ifland lies a clufter of illands, one of the largeft of which is Port Royal. Adjacent to Port Royal lie St. Helena, Ladies ifland, Paris ifland, and the Hunting iflands, five or fix in number, bordering on the acean, fo called from the number of deer aṇd other wild game found upon them. All thefe iflands, and fome others of lefs note, belong to St. Helena parifh.

Croffing Broad river, you come to Hilton Head, the moft fouthern feef ifland in Carolina. Weft and fouth-weft of Hilton Head lie Piockney's, Bull's, Dawfufkie's, and fome fmaller iflands, between
which and Hilton Head are Calibogie river and found, which form the outlet of May and New rivers.

## SOIL AND PRODUCTIONS.

The foil of this State may be divided into four kinds; firf, the pine barren, which is valuable only for its timber. Interfperfed among the pine barren are tracts of land free of timber, and every kind of growth but that of grafs. Thefe tracts are called favannabs, conftituting a feeond kind of foil, good for grazing. The third kind is that of the fwamps and low grounds on the rivers; which is a mixture of black loam and fat clay, producing naturally canes in great plenty, cyprefs, bays, loblolly pines, \&c. In thefe fwamps rice is cultivated, which conftitutes the ftaple commodity of the State. The high lands, commonly known by the name of oak and hiccory lands, conftitute the fourth kind of foil. The hatural growth is oak, hiccory, walnut, pine, and locuft. On thefe lands, in the low country, Indian corn is principally cultivated; and in the back country, befides this, they raife tobacco in large quantities, wheat, rye, barley, oats, hemp, flax, cotton, and filk.

There is little fruit in this State, efpecially in the lowver parts of it. The oranges are chiefly four; figs are plenty; a few limes and lemons, pomegranates, pears, and peaches; apples are fearce ${ }_{2}$ and are imported from the northern States. Melons; efpecially the water melon, are raifed here in great perfection.

The river fwamps, in which rice can be cultivated with any tolerable degree of fafety and fuccefs, do not extend higher up the rivers than the head of the tides.; and in eftimating the , value of this fpecies of rice land, the height which the tide rifes is taken into confidera: tion, thofe lying wheresit rifes to a proper pitch for overflowing the fwamps being the moft valuable. The beft inland fwamps, which conftitute a fecond fpecies of rice land, are fuch as are furnifhed with refervoirs of water. Thefe refervoirs are formed by means of large banks thrown up at the upper parts of the fwamps, whence it is conreyed, when needed, to the fields of rice.

The foil on the inlands is generally better adapted to the culture of indigo than the main, and lefs fuited to rice : cotton grows very well upon them. The natural growth is the live oak, which is fo excellent for fhip timber, and the palmetto or cabbage tree, the utility of which, in the conftruction of forts, was experienced during the Jate war.

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 GENERAL DESCRIPTIONAt the diftance of about one hundred and ten miles from the fea, the river fwamps terminate, and the high lands extend quite to the rivers, and form banks, in fome places, feveral hundred feet above the furface of the water, and afford many exteniive and delightful views. Thefe high banks are interwoven with layers of leaves and different coloured earth, and abound with quarries of freeftone, pebbles, flint, chryftals, iron ore in abundance, filver, lead; fulphur, and coarfe diamonds.

The fwamps above the head of the tide are occafionally planted with corn, cotton, and indigo. The foil is very rich, yielding from forty to fifty bufhels of corn an acre. -

It is curious to obferve the gradations from the fea coaft to the upper country, with refpect to the produce, the mode of cultivation, and the cultivators. On the iflands, upon the fea coaft, and for forty or fifty miles back, and on the rivers much farther, the cultivators are all flaves. No white man, to fpeak generally, ever thinks of fettling a farm and improving it for himfelf without negroes. If he has uo negroes, he hires himfelf as overfeer to fome rich planter, who has more than he can or will attend to, till he can purchafe for himfelf. The articles cultivated are corn and potatoes, which, with the fmall rice, are food for the negroes; rice, indigo and cotton, for expertation: The culture of this laft article is capable of being increafed equal to almoft any demand. The foil was cultivated, till lately, - 學moft wholly by manual labour. The plough, till fince the peace, was fcarcely ufed : now, the plough and harrow and other improvements are introduced into the rice fwamps with great fuccefs, and will no doubt become general. In the middle fettlements, negroes are not fo numerous; the mafter attends perfonally to his own bufr-

The nefs. The land is not properly fituated for rice : it produces moderately good-indigo weed, and fome tobacco is raifed for exportation. The farmer is contented to raife corn, potatoes, oats, rye, poultry, and a little wheat. In the upper country, there are but few negroes; generally fpeaking, the farmers have none, and depend, like the inhabitants of the northern States, upon the labour of themfelves and
$\therefore$ - families for fubfiftence; the plough is ufed almoft wholly. Indian corn in great quantities, wheat, rye, potatoes, \&ic. are raifed for rood, and much tobacco and fome wheat, cotton and indigo, for exportation.

Rice ground is prepared only by effectually fecuring it from the watcr, except fome higher parts of it, which are fometimes dug up:
with a hoe, or mellowed by a plough or harrow. When the rice is young, the overflowing of the water does not prevent its growith. Thofe who have water in referve, commonly let it in upon their rice, after firft going through with the hoe, while it is young, though it is deemed beft to keep out the grafs by the boe: only. The water is commonly kept on the rice eight or ten days after hoeing. When the ear is formed, the water is continued on till it is ripe : it is hoed three or foar times. When the grafs is very thick, a negroe cannot hoe more than one fixteenth of an acre in a day. From three pecks to a buffiet is fown on an acre. It produces from fifty to eighty bufhels of rough rice an acre; one hundred and twenty bufhels of rough rice have been produced on one acre; twenty bufhels of which make about five hundred pounds, or eight and a quarter bufhels clean rice for market. After it is threfhed, it is winnowed, and then ground in a mill, confructed of two blocks in a fimple manner; then winnowed by a fan conftructed for that purpofe, then beat in a mortar by hand, or, now generally, by horfe or water machines, then fifted, to feparate the whole rice from that which is broken and the flour. The whole rice is then barrelled in calks of about five hundred pounds, or eight and a quarter bufhels. The fmall rice ferves for provinions, and the flour for provender, the chaff for manure, and the ftraw for fodder. The blade is green and freft while the ear is ripe. The price is in the general from nine fhillings and four-pence, to ten flillings and fix-pence a hundred; reckoning the dollar at four flillings and eight-pence.

## CIVIL DIVISIONS.

The proprietors who firft fent fettlers to Carolina, divided it into counties and pariflies. The counties were generally named after the proprietors. No county courts, however, were eftablifhed, and this divifion, thiough for a long time kept up in the province, became in a great meafure obfolete, previous to the revolution; fince the revolution, county courts have been eftablifhed, and the State is now divided into diftricts and counties, and the counties are fubdivided; in the lower country into parihes, and in the upper country into fmaller or voting diftricts.

There are feven principal diftricts, in which are contained thirtyfive counties, as follows:

BEAUFORT DISTRICT,
On the fea coaft between Combatee and Savannah riversd Hilton,

Lincoln, Granville。 Shrewfbury,

CHARLESTON DISTRICT;
Betweeñ Santee and Combahee rivers, Charlefton,

Marion,
Colleton, Wafhington,

Berkeley,
Bartholowewis
GEORGE-TOWN DISTRICT;

| Between Santee tiver-and North-Carolina. |  |
| :---: | :---: |
| Wenyah, | Kington, Liberty. |
| orangeburgh district, |  |
|  | Weft of Beaufort Diftrict. |
| Louifburgh, | Lexington, Wintorr. |
| Orange, |  |

CAMBDEN DISTRICT,

|  | Weft of George-Town Diftrict. |  |
| :--- | :--- | :--- |
| Clarendon, | Clermont, | York, |
| Richland, | Lancafter, | Chefter. |
| Fairfield, |  |  |

CHERAWS DISTRICT, Weft of George-town Difrrict. Malborough, Chefterfield, Darlington.-
ninety-six district;
Comprehending all the other parts of the State.

| Abberville, | Union, | Grenville,, |
| :--- | :--- | :--- |
| Edgefield, | Laurens, | Pendleton. |

The committee appointed by the act of Affembly to divide th diftricts into counties, were to lay them as nearly forty miles 广quare as was practicable, dise regard being paid to fituations, natural boundaries, 8 cc .

## CHIEF TOWNS.

## CHARLESTON.

Charlefton is the only confiderable town in South-Carolina: it is fituated on the tongue of land which is formed by the confluence of Afhley and Cooper rivers, which are large and navigable. Theie rivers mingle their waters immediately below the town, and form a fpacious and convenient harbour, which communicates with the ocean juft below Sullivan's ifland, which it leaves on the north, feven miles fouth-eaft of the town. In thefe rivers the tide rifes, in common about fix feet and a half.* The continued agitation which this occafions in the waters which almoft furround Charlefton; the refrefhing fea breezes which are regularly felt, and the fmoke rifing from fo many chimneys, render Charlefton more healthy than any part of the low country in the fouthern States. On this account it is the refort of great numbers of gentlemen, invalids from the Weft-India iflands, and of the rich planters from the country, who come-here to fpend the fickly months, as they are called, in queft of health and of the focial enjoyments which the city affords: and in no part of America are the focial bleffings enjoyed more rationally and liberally. than in Charlefton. Unaffected hofpitality, affability, eafe in manners and addrefs, and a difpofition to make their guefts welcome ${ }_{2}$ eafy, and pleafed with themfelves, are characteriftics of the refpectable people in Charlefton.

The land on which the town is built is flat and low, and the water brackifh and unwholefome. The ftreets from ealt to weft extend from river to river, and, running in a ftraight line, nøt only open beautiful profpects each way, but afford excellent opportunities, by means of fubterraneous drains, for removing all nuifances, and keeping the city clean and healthy. Thefe ftreets are interfected by others, nearly at right angles, and throw the town inte a number of fquares, with duelling houfes in front, and office houfes and little gardens behind. Some of the ftreets are conveniently wide, but mof of them are much too narrow, efpecially for fo populous a city, in fo warm a climate ${ }_{\text {}}$ Befides their being a nurfery for various difeafes from their confined fituation, they have been found extremely inconvenient in cafe of

[^29]fires, the deftructive effects of which have been frequently felt in this ci:y. The houfes, which have been lately buint, are brick, with tiled roofs. Some of the buildings in Charlefton are elegant, and moft of them are neat, airy, and well furnified. The puinc buildings are, an exchange, fate houre, lately rebuilt, armours, poor houfe, tro large churches for Epifcopalians, two for Congregationalifts, or Independents, one for Scotch Profbrterians, one for Baptits, one for German Lutherais, two fo: the Methoditts, a large houfe for worflip being lately finifhed by thim, one for French Proteftants, befides a meeting houfe for Quakers, a Roman Catholic Chapel, and a Jewifh fynagogue.

But little attention is paid to the public markets. A great proportion of the moft wealthy inhabitants have plantations, from which they receive fupplies of almoft every kind of provifion. The country abounds with poultry and wild ducks: their beef, mufton, and veal, are not of the beft kind. Few fifl are brought to marke:.

In $\mathrm{I}_{7} \delta_{7}$, it was computed that there was one thoutand fix hundred houfes in this city, nine thoufand fix hundred white inhabitants, and five thoufand four hundred negroes; and what evinces the healthinefs of the place, upwards of two hundred of the white inhabitants were above fixty years of age. In 1791, there were fixteen thouland three hundred and fifty-nine inhabitants, of whom feven thoufand fix hundred and eighty-four were flaves.

Charletton was iucorporated in $1 ; 33$, and divided into thirteen wards, which chufe as many wardens, from among whom the citizens elect an intendant of the city. The intendant and wardens form the city council, who have power to make and enforce by-laws for the regulation of the city.

## BEAUFORT.

Beaufort, on Port Royal inland, is a pieafant litile tomn, of abou: fixty or feventy houfes, and two hundred and fifty inhabitants, who are diffinguifhed for their hofpitality and politenefs. The ccurts which were formerly held here, are now heid at Coofawhatchie.

## GEORGE-TOWY.

This town, the feat of juftice in George-town diftrict, ftands on a fpot of land near the junction of a number of rivers, which, when renited in one broad ftream, by the name of Winyaw, fall into the
the 1 river inftar the l

Ca and apon by for they : and fo profits almoft Prange of fror

Acce Spate w

Vox.:

COLUMBIA.
Columbia, which has lately been made the feat of government by ine legillature, ftands juft below the junction of Saluda and Broad rivers on the Congaree. The public offices have, however, in fome inftances been divided, for the accommodation of the inhabitants of the lower counties, and a branch of each retained in Charlefton.

CANEDE.
Camden, on the Wateree, north-weft of Santee hills, one hundred and thirty miles north-weft from Charlefton, is regularly built, upon a good plan; but a fmall part of it is yet executed.

PURYSBURGE.
Puryfburgh is a hilly village, about twenty miles above Savannah, on the north bank of the river of the fame name. It was early fettled by foreigners, with a view to the culture of filk, which for a while they attended to with firit. The mulberry trees are yet ftanding, and fome attention is ftill paid to the making of this article : but the profits of the rice and indigo have diverted the original planters from a!moft every other purfuit. Befides thefe, are Jackfonborough, Orangeburgh, and Cambridge, which are all inconfiderable villages pf from thirty to fixty dwelling houfes.

## POPULATION.

According to the cenfus of 179!, the number of inhabitants in this Spate was as follows :

GEORGE-TOWN DISTRICT.

st.
St. 1
St. F
St. Jc
ist.
, $c^{\prime}$
otr.
St. J
St. T
Chri
$\stackrel{\mathrm{St} . \mathrm{J}}{\mathrm{Cr}}$
St.Jc
St. A
St. P.

Georg
Chera
Came
Ninet:
Beaufc
Orang
Charle

BEAUFORT DISTRICT.


CHARLESTON DISTRICT.

| St. Philip's Parih, <br> St. Mìcnacl's do. . St. Bartholomew's do. | $\begin{array}{r} 2810 \\ 625 \end{array}$ | 1561 <br> 491 | 3718 | 586 | ${ }^{768} 4$ | 16359 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| St.John's, Berkley, do. | 205 | 491 | 1017 | 135 | 10338 | ${ }_{12606}$ |
| 4st. George's, Dor- | 9 | 152 | $33^{1}$ | 0 | 5170 | 5922 |
| chefter, do. . . $\}$ | 337 | $3{ }^{11}$ | 604 | 25 | 3022 | 42991 |
| St. Steven's do. . . | 81 | 45 | 100 |  |  |  |
| St. Thomas's doe, do. | 140 | 110 | 187 | 15 | 3345 | 2733 |
| Chrift Church | ${ }^{145}$ | 67 | 185 | 34 | 3405 | 3797 3836 |
| St. James's, Goofe | 156 | 138 | 272 | $1{ }^{1}$ | 2377 | 2954 |
|  | 158 | 79 | 202 | 15 | 2333 | 2787 |
| st.john's, Colleton,do. <br> st. Andrew's do. | 209 | 04 |  | 22 | 4705 |  |
| St. Paul's do. . . | 125 $6-$ | 78 | 174 | $3{ }^{1}$ | 2546 | 2947 |
| . | 6 - | 48 | 103 | 15 | 3202 | 3433 |
|  | 5060 | 3177 | 7165 | 950 | 50633 | 6698 |

## SUMMARY OF POPULATION.

| George-town Diftrict, Cheraws do. | 2356 | 2467 | 4055 | 113 | 13131 | 22122 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Camden do. - | 1779 6941 | 1993 | 3446 | 59 | 3229 | 10706 |
| Ninety-fix do. | 6941 14973 | 8604 | 13607 | 158 | 881,5 | 38265 |
| Beaufort do. | $\begin{array}{r}14973 \\ 1266 \\ \\ \hline\end{array}$ | 17165 1055 | 30324 | 198 | 11069 | F3720 |
| Orangeburgh d | 3201 | 1055 | 2043 | 153 | 14236 | 18753 |
| Charlefton do. . | 3201 | 3171 | 6010 | 170 | . 5931 | 18513 |
|  | 5060 | 3177 | 7165 | 950 | 50633 | 66985 |
|  | 35576 | 7722 | 66680 | 1801 | 07094 | 91 |
| $\mathrm{Kk}_{2}$ - |  |  |  |  |  |  |

It would be impoffibe, without bther data than we poffefs, to determine with any degree of certainty what is the prefent gumber of inhabitants in this State; but many circumflances tend to prove, that it has kept pace in point of incrèafe with moft of the other States in the Union; it cannot, therefore, at this period, contain lefs than three hundred thoufand.

## MILITARY STRENGTH.

There are between thirty and forty thouiand fighting rien in this State. About ten men are kept to guard Fort Johnfon, on James inland, at the entrance of, Charlefon harbour, by which no veffel can pafs; unlefs the mafter or mate make oath, that there is no malignant diftemper on board. The militia laws, enafting that every freeman, between fixteen and fifty sears of age, fhall be prepared for war, have been but indifferently obeyed fince the peace. Ant unufual degree of military fpirit, however, feems lately to have arifen among the citizens of Chariefton. A number of volunteer uniform companies have been lately formed in this city, befides a troopof horfe, and the ancient battalion of artillery. This military ardour has been encouraged in this and feveral other parts of the Uaion by the fituation of affairs in Europe.

## RELIGION AND CHARACTER.

Since the revolution, by which all denominations were put on ar: équal footing, there have been no difputes between different religious fects. They all agree to differ on doctrinal points, and all agree in promoting the grand duties of Chrifianity toward God and man.

The upper parts of this State are fettled chiefly by Preflyterians; Baptifts and Methodifts. From the moft probable calculations it is盆ppofed, that as to numbers they may be ranked as follows : Prefbyterians, including the Cengregational and Independent churches; Epifcopalians, Baptifts, Methodifts, \&e.

Diffolute pleafures, and luxury of every kind, form a graid feature of the national character of the Carolinians. We cenfure not the profufion of their tables; it is the profufion of Heaven; but to the pleafures of the table they are too much addicted. Here, and in every fpecies of luxurious indulgence, they feem galloping hard afier the diffolute Earopeans; and fmall are the powers requifite to difcern, that they arẹ not very far benind them.

The Carolinians fooner arrive at maturity, both in their bodies ned minds, than the matives of colder climates. They poffefs a na-
tural quicknefs and vivacity of genius, fuperior to the inhabitants of the north; but too generally want that enterprife and perfeverance which are neceffary for the higheft attainments in the arts and fciences. They move, indeed, few motives to enterprife ; inhabiting a fertile country, twhich, by the labour of flaves, produces plentifully and creates affluence; in a climate which favoursindulgetice, eafe, and a difpoficion for conrivial pleafures, they too generally reft contented with barely knowledge enough to tranfact the common affairs of life. There are not a few inftances, however, in this State, in which genius has been united with application, and the effects of their union have been happily experienced, not only by this State, but br the whole Union.

The wealth produced by the labour of the flares, furniffies their proprietors with the means of hofpitality; and no people in the world ufe thefe means with more liberality. Some of the inhabitants fpare no pains or expenfe in giving the higheft polifh of edua, cation to their children, by enabling them to travel, and by other. means unattainable by thofe who have but moderate fortunes.

The Carolinians are generally affable and eafy in their manners, and polite and attentive to ftrangers. The ladies want the bloom of the north, but have an engaging foftnefs and delicacy in their appearance and manners, and many of them poffefs the polite and elegant accomplifiments.
Hunting is the moft faflionable amufement in this State; at this the country gentlemen are extremely expert, and with furprifing dexterity purfue their game through the woods. Ganiing of all kinds is more difcountenanced among fafhionable people, in this than in any of the fouthern States. Twice a year, ftatedly however, a clafs of fportive gentlemen, in this and the neighbouring States, have their horfe-races. Bets of ten or fifteen huadred guiseas have been fometimes laid on thefe occafions.
Bacchus is much refpected in this country, and no objection carr be made to the fway of fo mirth-infpiring a friend, when limited by prudence and moderation. But as that feldom happens, the objections againt this cuftom become ferious and weighty $y$ it is a fpecies of luxury the moit dangerous, becaufe leading directly to all others; but it is a fpecies for which the Carolinians are moft excufable. Without the afffance of wine, in all warm climates, the mind is enervate, the fpirits become languid, and the imagimation barren. It is known to all phyficians, that wine, by its tonic quality,
obviates debility induced by climate; and that the effects of putrid miafinata are deftroyed by its antileptic $p \times w e r$. Hence the ufe of wine, in warm and fickly climates, becomes obvious; and hence a caufe arifes, why the inhabitants of thofe climatesare fo generally addicted to the bottle.
With the introduction of luxury in this country, the power of religion has vifibly declined amongt all the different denominations of Chriftians; but if the Carolinians are not reigious, it may be truly faid, they are not fuperfitious. Theatrical amufements have been introduced and encouraged among them. Thefe, though they form a fpecies of refined luxury, are, of many others, the leaft dangerous; their political damage, at leaft, is not fo great; for, wnile they add
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trc all a polifh to the manners of the people, they feldom impoverih the country : actors are generally profufe in living; they feldom deprive a country of its cafh : hence money in their hands is not loft ; quite the reverfe, it is put in circulation.

In countries where flavery is encouraged, the ideas of the people are, in general, of a peculiar caft; the foul often becomes dark and narrow, and affumes a tone of favage brutality. Such at this day are the inhabitants of Barbary and the Weit-Indies. But, thank God! nothing like this has yet difgraced an American State. We may look for it in Carolina, but we flall be difappointed. The moft elevated and liberal Carolinians abhor flavery; they will not debafe themfelves by attempting to vindicate it ; he who would encourage it, abitracted from the idea of bare neceffity, is not a man, he is a brute in human form. For, "difguife thyfelf as thou wilt, O תavery, fitl thow art a bitter draught;" it is intereft, louder than the voice of reafon, which alone exclaims in thy favour.
Among their neighbours, the Carolinians ftand accufed of haughtine's and iwifient carriage. Nothing is apparently more true than this charge; nothing is really more falfe. Surrounded by flaves, and accultomed to command, they acquire a forward, dictatorial habit, which can never be laidafide. In order to judge of their difjofitions, we muft ftudy them with attention. Genuine affability, and ge:zerofity, form their diftinguifhing charaeteriftics; for thefe, for the cexcriie of bofpitality, and all the focial virtues, we may venture to affert, that no country on earth has excelled Carolina.

There is no inftence, perhaps, in which the richer clafs of people trefpais more on-the rules of pröpriety than in the mode of conducting their funcrus. That a decent refpect flould be paid to the
dead, is the naturai distate of refined humanity; but this is not done by fumptuous and expenfive entertainments, fplendid decorations, and pompous ceremonies, which a mifguided fafhion has introduced and rendered neceffary in this State. Wine, punch, and all kinds of liquors, tea, coffee, cake, \&c. in profution, are handed round on thefe iolemn occafions. In fhort, the Scripture obfervation, "It is better to go to the boufe of mourning than to the boufe of feafting," is unintelligible and wholly inapplicable here, as it is difficult to diftinguifh the houfe of mourning from the houfe of fealting.

## TRADE AND MANUFACTURES.

In the middle, and efpecially in the upper country, the people are obliged to manufacture their onn cotton and woollen cloths, and moft of their hufbandry tools; but in the lower country the inhabitants, for thefe articles, depend almoft entirely on their merchants. Late accounts from the interior parts of this itate inform us, that the inhabitants manufacture, entirely in the family way, as much as they have occafion for; that cotton, hemp and flax are plenty; that they have a conifiderable ftock of good theep; that great exertions are made, and much done in the houfhold way; that they have long been in the habit of doing fomething in family manufactures, but within a few years paft great improvements have been made. The women do the weaving, and leave the men to attend to agriculture.

This State furnihes ail the materials, and of the beft kind, for thip-building. The live oak, and the pitch and yellow pines, are of a fuperior quality. Ships might be built here with more eafe, and to much greater advantage, than in the middle and eaftern States. A want of feamen is one reafon why this bufinefs is not more generally attended to.

So much attention is now paid to the manufacture of indigo in this State, that it bids fair to rival that of the Frenci. It is to be regretted, that it is ftill the practice of the merchants concerned in the Carolina trade, to fell, at foreign markets, the Carolina in ligo, of the firft quality, as French. This country, while it increales the immediate profir of the merchant, finks the charafter of the Carolina article; and in one view almoft neceflitates the trader to continue a practice begun in folly and knavery.

There has been a valt confumption of foreign imported articles; but the quantities and value of their exports generally leave a balance in favour of the State.

The

The amount of exports from the port of Charlefton, in the year ending November, 1787, was then eftimated, from authentic docus ments, at five hundred and five thoufand two hundred and feventy: nine pounds, nineteen fhillings and five peace, fterling money. The number of veffels cleared from the cuftom-houle the fame year was pine hundred and forty-feven, meafuring fixty-two thoufand one hundred and eighteen tons; feven hundred and thirty-five of thefe, meafuring forty-one thoufand five hundred and thirty-ane tons, were American; the others belonged to Great-Britaia, Spain, France, the United Netherlands and Ireland.

The principal articles exported from this State are, rice, indigo, tobacco, fkins of various kinds, beef, pork, cotton, pitch, tar, rofin, turpentine, myrtle-wax, lumber, naval ftores, cork, leather, pink root, fake root, ginfeng, $\& x \mathrm{c}$. In the moft fuccefsful feafons, there have been as many as one hundred and forty thoufand barrels of rice, and one million three hundred thoufand pounds of indigo exported in a year. From the 15 th of December, 1791, to September, 1792, one hưndred and eight ṭhoufand five hundred and fixty-feven tierces of rice, averaging five hundred and fifty pounds nett weight each, were exported from Charlefton. In the year ending September 3oth, 1791, exclufive of two quarters, for which no returns were made, the amount of exports from this State was one million eight hundred and fixty-fix thoufand and twenty-one dollars.

There is in this State, befides a branch of the national bank, a bank, by the name of the South-Carolina bank, which was eftablißhed in 1792 in Charlefton.

## STATE OF LITERATURE.

Gentlemen of fortune, before the late war, fent their fons to Europe for education. During the late war and fince, they have generally fent them to the middle and northern States. Thofe who. have been at this expenfe in educating their fons, have been but comparatively few in number, fo that the literature of the State is at a low ebb. Since the peace, however, it has begun to flourifh. There are feveral refpectable academies at Charjefton; one at Beaufort, on Port Royal ifland; and feveral others in different parts of the State. Three colleges have lately been incorporated by law; one at Charlefton, one at WinnBorough, in the diftrict of Camden, and the other at Cambridge, in the diftrict of Ninety-fix. The public and private donations for the fupport of thefe three colleges were
originally intended to have been appropriated jointly, for the erecting and fupporting of one refpectable college. The divifion of thefe donations has fruftrated this defign. Part of the old barracks in Chariefton has been handfomely fitted up, and converted into a college, and there are a number of fudents; but it does not yet merit a more dignified name than that of a refpectable academy. The Mount Sion college, at Winnborough, is fupported by a retpectanie fociety of gentlemen, who have long been incorporated. This inftitution flourifhes, and bids fair for ufefulnefs. The college at Cambridge is no more than a grammar-fchool. To put the literature of this State upon a refpectable footing, nothing is wanting but 2 fpirit of enterprife among its wealthy inhabitants.

## CHARITABLE AND OTHER SOCIETIES.

Thefe are the South-Carolina, Mount Sion Library, and St. Cer cilia focietres; a fociety for the relief of the widows and orphans of clergymen, a medical fociety lately initituted in Charlefton, and a mufical fociety. At Beaufort and on St. Helena are feverai charitabie focieties, incorporated with funcis to a confiderable amount, defigned principally for the education of poor children, and which promife, at a future day, to be of great public utility. What are called Jockey Clubs have increafed within a few years.

## PUBLIC REVENUE AND EXPENSES.

The public revenue of this State is, nominally, ninety thoufand pounds fterling ; but a great part of this is either not collected, or paid in fecurities, which are much depreciated. The expenfes of government are about fixteen thoufand pounds fterling per annum.

The great bulk of the revenue of the State is raifed by a tax on lands and negroes. The lands, for the purpofe of being taxed according to their value, are divided into three grand divifions; the firf reaches from the fea-coaft to the extent of the flowing of the tides; the fecond, from thefe points to the fail of the rivers; and from thence to the utmoft verge of the weftern fettlement makes the third. Thefe grand divifions, for the fake of more exactly afcertaining the value of the lands, are fubdivided into twentr-one different fpecies; the moft valuable of which is eftimated at fix pounds, and the leaft valuable at one fhilling per acre. One per cent. on the value thus eftimated is levied from all granted lands in the State. The collection of taxes is not annexed to the oflice of fheriff but Voc.1II,
is committed to particular gentletion appointed for that purpofe, who are allowed two and a half per cont. in Charlefton, and five per cent. in the other parts of the Siate, on all they collect.

## CONSTITUTION.

The legifative authority is vened in a General Aftembly, confiting of a Senate and Houfe of Reprefentatives. Tlecreare one hundred and twenty-tour reprefentatives, and thirty-five fenators appointed among the feveral diftricts. The reprefentatives are chofen for two years, muft be free white men, twenty-one years o!d, and have been inhabitants of the State three years. If refident in the difrict, they muft have a freehold of five hundred acres of land, and ten negroes, or ral eftate worth one hundred and fifty pounds ftering, clear of debi; if non-refident, muft have a freehold in the diftrict worta five hundred pounds fterling, clear of debt. The fenaters are chofen for four years, and divided into two ciaffes, one chits being chofen every. ficond year. They muft be fiee white men, thirty years old, and have been inhabitants five years. If refident in the ditrict, they muth hare a freenold worth three hundred pounds ftering, clear of debt; if non-refidat, a feehold worth one thoufand pouncs fterling, clear of cebt. Every free white man, twenty-one years old, having been an inbabitant of the. State two years, and been a freeholder of fifty acres of land, or a town lot, fix months, or having been refident in the difrict fix months, and paid a tax of three flillings fterling, has a right to vote for mombers of the legiflature. The Generai Affembly is chofen on the fecond Monday in October, and meets on the fourth Monday in November annually. Each houfe choores its own officers, juidges of the qualifications of its members, and has a negative on the other. A majority of each make a quorum from day to day, and compel the attendance of members. They are protected, in their perfons and eftates, during the feftions, and ten dars before and afier ; except in cafes of treafon, feiony, and breach of the peace. They are paid out of the public treafury, from which no money is draxn bat be the legillative authonity. Revenue bills originate in the lower houfe, but may be altered or rejected by the fenate. Army and navy contractors, and all officers, excepting officers in the militia, juitices of the peace, and juftices of the county courts which have no falarics, are excluded from the General Affembly. The clergyare excluded from civil offices. The executie nuthority is vefted in a governor, chofen for two years, by both houfes
heufes of Affembly jointly ; but he cannot be re-eiceted till after four years. He muft be thirty years old, have been an inhabitant of the State ten years, and have an effate in it worth onc thoufend five hundred pounds ftering, clear of debt. He can hold no other office except in the militia. A licutenani-governor is chofen in the fame manner, for the fame time, and poffefing the fame qualifications; and ho!ds the office of goverior in cafe of vacancy. Tiee governor is commander in chief of the military force; lias power to remit fines and forfeitures, and grant reprieves and pardons, except in cafes of impeachment; to require information of executive officers; to convene the General Affmbily on extraordinary occafions, and to adjourn them to any time not beyond the fourth Monday in Noveniber next enfuing, ian cafe they caniot agree on the time themfelves. He muft inform the a General Affembly of the condition of the State; recommend fach meafures as he fhall judge expecient; and take care that the laws are fathfully executcd in mercy. The legiflature has powis to veft the judianal autherity in fuch couts as it fanll think proper. The judges bold their commifion danirg good behaviour ; thofe of the itperior counts are cleted by joint ballot of both howics of Affembly ; have a fated falary, and can hold no other office. Ail cficers take an onth of fudlity to their duty, and to the confitution of this $S$ tate, and of the United States; and for mionciuct, may be impcached by the Houfe of Reprefentatives, and tried by the senate. This confitution afferts the fupreme power of the pecpie ; liberty of confcience; trial by jury; and fubordination of the military io the civil power. It cacludes $c x$ pofe faceo iaws ; tills of attainder; exceffive bail; and titles of nobility and hereditary diffinction.
The legifature has prwe:, under certain regulations, to make amendments to the conftithtion. And a convention may be called by a vote of two-thirds of both branches of the whoie reprefentation.

This confitution was ratifed june $3 \dot{d}, 1790$.

## Laws.

The laws of this State have nothing in them of a particular nature, excepting what arifes from the permifion of flazery. The evidence of a flave cannot be taken againft a white man; and the mater who kills his flave is not punifhable otherwife than by a pecusiary malct, pting sunty al Afsutive both 10ufes and twelve months imprifonment. * .

[^30]A committee was appointed, at the feffion of the legiflature in 1792, to put in train the bufinefs of revifing and amending the negroe act, or the law for governing the flaves. The iffue has meliorated the condition of the flaves, and afforded an evidence to the world of the enlightened policy, and increafing humanity of the citizens of this State. Prior to this a difpofition to foften the rigors of flavery was minifefted, by allowing them fill, tobacco, and fummer clothing, which formerly was not cuftomary. Thus while a veftige of flavery remains the fituation of the flaves is rendered tolerable, and no doubt can be entertained but that farther fteps will be taken to prepare their minds for the enjoyment of that freedom which the federal governinent has acknowledged to be their right, and which they have paved the way for their obtaining.

A law, altering the mode of defcent of inteftate eftates, which formerly defcended according to the laws of England, was paffed in 1792. Aceording to the prefent law, a more equal partition takes place, and more conformable to a republican government, to the dictates of naturai affection, and the principles of common fenfe.

By a late regulation, the judges of the court, who before had a falary of five hundred pounds each, and fees, have now fix hundred pounds and no fees. The chief juftice has eight hundred poundso

## PRACTICE OF LAW, COURTS, \&c.

From the firft fettlement of this country in 1669 , to the year $176 g_{3}$ a fingle court, called the court of common pleas, was thought fufficient to tranfaet the judicial bufinefs of the State. This court was invariably held at Charlefton, where all the records were kept, and all civil bufinefs tranfacted. As the province increafed, inconveniencies arofe, and created uneafinefs among the people.

To remedy thefe inconveniencies an act was paffed in 1769; by which the province was divided into feven diftricts, which have been mentioned. The court of common pleas, invefted with the powers of the fame court in England, fat four times a year in Charlefton. By the above-mentioned act, the judges of the court of common pleas were empowered to fit as judges of the court of feffions, inveited with the powers of the court of king's bench in England, in the criminal jurifdiction. The act likewife directed the judges of the courts of common pleas and feffions in Charlefton diftrict, to divide, and two of the judges to proceed on what is called the northern eircuit, and the other two on the fouthern circuit, distributing juftice
iretheir progrefs. This mode of adminiftering juftice continued till $: 585$, when, by the unanimous exertions of the two upper diftricts, an act was paffed, eftablifhing county courts in all the counties of the four diftrifs of Camden, Ninety-Six, Cheraws, and Orangeburgh. The county courts are empowered to fit four times a year. Before the effablifimeat of county courts, the lawyers all refided at Charifiton, under the immediate eye of government; and the Carolina bar was as pure as any in the United States. Since this - eftabl:hment, lawyers have flocked in from all quarters, and fettled in different parts of the country, and law-fuits in confequence have been multiplied be:ond all former knowledge.

## DAMAGE BY THE LATE WAR.

The damages which this State fuftained in the late war are thus eftimated: the threc entire crops of 1779,1780 , and 1781 , all of which were ufed by the Britifa; the crop of 1782 , taken by the Americans; abcte twenty-five thoufand negroes; many thoufand pounds worth of piate, and houfhold furniture in abundance; the rillages of George-town and Camden burnt; the lofs to the citizens directly by the plunderings and devaftations of the Britifh army, and indirectly by American imprefrients, and by the depreciation of the paper currency, together with the heavy debt of one million, two hundred thoufand pounds ferling, incurred for the fupport of the rar, in one aggregate view, make the price of independence to South-Carolina, exclufive of the blood of its citizens, upwards of three milion pounds fterling.

> I NDIANS.

The Catabaws are the only nation of Indians in this State. They have but one town, called Catabaw, fituated on Catabaw river, in latitude $34^{\circ} 49^{\prime}$, on the boundary line between North and South Carolinas, and contains about four hundred and fifty inhabitants, of which about one hundred and fifty are fighting men.
It is worthy of remark, that this nation was long at war with the fix -nations, into whofe country they often penetrated, which it is faid no other Indian nation from the fouth or weft ever did. The fix nations always confidered them as the braveft of their enemies, till they were furrounded by the fettlements of white people, whofe neighbourhood, with other concurrent caufes, have rendered them sorrupt and enervated.

## STATEOF

## GEORGIA.

## STTATIGN, ENPENT, AND YOUNDRIES,

T


 ocean; on the fonth, by Ef and Weft Florids ; an the wif, by the river anmpin ; and on the north and norti-caf, by southCarolina, and the lase ected to the Unitat States by Nouta-Caulina, or the Tennties govmanat.
CLI MATE, \&i.

In fome pars of this state, at matudar frans of be fear, tias cimate canot be etecmed alubnions. In tie low comaty near the rice fwamps, bilious complaints, and ievirs of various kiads, are pretty univertal during the mostis of Jaf, Ausut and September, which, for this refen, are called the fichiy montis.

The diforders pectiar to this chimate orghate party from the bacinefs of the water, which in the low commar, exeept in and sbou: Savanah, and fome other places, whare goed fries are found, is generally brackih, and party from the nexions putrid mponizs witch are exhaled from the itagnant waters in the rice fwamps. Bendes, the lóng continuarce of warm weather producs a genera! rciaxation of the nervous fyftem, and as a geat proportion oftie inhabiants have no neccflary labour to call them to evercise, a large there of indolence is the natural confeguence; and indolerec, checiaty anongut a luxuriou's people, is ever the parent oi cifate. The inmenfe quantities of fpirituous lipurs which are ufeú to cgrrect de brackithnefs of the water, form a fpecics of interparace which too citen proves ruincus to the confitution. pavent of infurm, hicky hoits, ofen, in more senfes than one, have cieidren of their owa bikneis.

A confiderable part of the difeafes of the prefent inkabitants may, theretore, be confidered as hereditary.

Eefore the fickly feafon commeace, many of the rich planters remove with their families to the fea ifucds, or fone elevard healhy fituatirn, where they refide three or four month for the beneft of the freh air. In the winter and fring, picerifics, peripacumonies, and other infamanory diforders, occationed by fithen and violent colds, are generaly common and fiequenty fatal. Cunfumptions, epilcpfres, caticers, fallies and apopicxies, are not fo common among the inmabitants of te: buthern as nothern chanates.

The winters in Georgia are very mid and pleatant. Snow is feldom or never fecn. Vegetation is not frequently pruentec by fevere frofts. Cattic fubfift wel thoteg the winter, without any other food than what they obtaim in the woos and havancais, and are fatter in that fearon than in any other. In the hity conney, which begins about fity, and in fare phocs one huncred miles from the fea, the air is pure and fabobous, and the raier pierty and grod. Frcin June to September, the mewory in Fahen:eit's thermoncter common!y factuates from $76^{\circ}$ to $90^{\prime \prime}$; in winter, finm $40^{\circ}$ to $60^{\circ}$. The noff prevailing winds are fouth-weft and caft in winter, north-weft. The eaft wiad is warmeit in winer, and cooleft in iommer. The fouth wind, in the fummer and fall proticuaty, is camp, fuitry, unelafic, and, of courfe, wheathy:

In the fouth-eait parts cit this Sutc, which lie vithin a few degrees of the corrid zone, the atmofphere is kept in motim by impreffons from the trade wincs. This ferves to puitity the air, and render it fit for repiration; fo that it is found to hasic a very advantageous effect on perions cf confumptive habits.

## FACE OF THE COUNTRY.

The eaftern part of the State, between the mountains and the ccean, and the rivers Savannah and it. Mary's, a trast of country, more than one handred and twenty miles from north to fouth, and Sorty or fifty from eaft to weit, is catire'y level, without a hill or fone. At the diftance of about forty cr fifty milcs iromethe feaboard, or fati-marfh, the lands begin to be more or lefs uneven. The ridges graduaily rife one aboveranother into tiils, and the hills fuccefitely increaling in height, till they finally t.rm nate in mountains. That valt chain of mountains which $e$ mmences with the Katt's Kill, near 'Hudfon river, in the State or New-York, known
by the names of the Allegany and Appalachian mountains, terminate in this State, about fixty miles fouth of its northern boundary. From the foot of this mountain fpreads a wide-extended plain, of the richeft foil, and in a latitode and climate well adapted to the coltivation of moft of the Eaft-India productions.

The rivers in this State are enumerous, and fome of them of tix utmoft importance.

Savanah river divicies this State from South-Carolina: its sourfe is neariy from north-weft to fouth-etif. It is formed principaily of two branches, known by the names of Tugule and Keowee, which fpring from the mountains, and unite fifteen miles noth-weft of the northern boundary of Wilkes connty. It is navigable for large veifels up to Savannah, and for boats of one hundred feet keel as fas as Augufta. After rifing a fall juf above this place, it is paffable for boats to the month of Tugno fiver. After it takes the name of Savannah, at the confluence os the Tugulo and Kcoivee, it receives a number of tributasy fircums from the Georeta $e$ de, the principal of which is Broad river, which rifes in the conaty of Franilin, and yans fouth-eaft througi part of Wikes county, ant mingles with the Savannah at the town of Peterburgh, and what, wha trifing expenie, be made beatable twenty-fyc or thiry totiles through the beft fettlements in Wilkes county. The but, at the comance of Savanmah rivar, in lat. $3^{\prime \prime} 57^{\prime}$, has inteen fect water at haif tide.

Ogeechce river, about eigiteen milies fouth of the Savamah, is a Enaller river, and nearly paraisl with it in its courfe.

Alatamaha,* about fixty miles foath of Sawaniah river, has its fource in the Cherosee mountains, near the head of the Tugulo, the great weft branch of Savannah, onl, fee it leaves the mountains, is joins. ........ s. $\because$..amerbe rimbers; thence it defcends throush the hiliy comnty, with ail its collaceral branches. and winds rapidly amongft hills two huncred and fifty miles, and then enters the fat, plain country, by the name of the Oaknulge; thence meandering one hundred and fifty miles, it is joined on the eafl fide ty the Ocone, which likewife heacis in the lower ridges of mountains. After this confuenee, having now gained a vaft aequifition of waters, it aframes the name of Alatamaha, when it becomes a large majeftic river, flowing with gentic windings through a raft foreit, near one hundred miles, and enters the Athatic by

[^31]feveral mouths. The north channel; or entrance, glides by the heights of Darien, on the eaft bank, about ten miles above the bar, and, running from thence with feveral turnings, enters the ocean between Sapello and Wolf iflands. The fouth channel, which is efteemed the largeft and deepeft, after its feparation from the north, defcends gently, winding by M‘Intoh's and Broughton iflands; and laftly, by the weft coaft of St. Simon's ifland, enters the occan, through St. Simon's found, between the fouth end of the ifland of that name, and the north end of Jekyl ifland. On the weft banks of the fouth channel, ten or twelve miles above its mouth, and . nearly oppofite Darien, are to be feen the remains of an ancient fort, or fortification; it is now a regular tetragon terrace, about four feet high, with baftions at each angle ; the area may contain about an acre of ground, but the foffe which furrounded it is nearly filled up. There are large live oaks, pines and other trees, growing upon it, and in the old fields adjoining. It is fuppofed to bave been the work of the French or Spaniards. A large fwamp lies betwixt it and the river, and a confiderable creek runs clofe by the works, and enters the river through the fwamp, a fmall diffance above Broughton ifland. About feventy or eighty miles above the confluence of the Oakmulge and Ocone, the trading path from Augufta to the Creek nation croffes thefe fine rivers, which are there forty miles apart. On the eaft banks of the Oakmulge, this trading road runs nearly two miles through ancient Indian fields, which are called the Oakmulge fields; they are the rich low lands of the river. On the heights of thefe low grounds are yet vifible monuments or traces of an ancient town, fuch as artificial mounts or terraces, iquares and banks, encircling confiderable areas. Their old fields and planting land extend up and down the river, fifteen or twenty miles from this fite. And, if we are to give credit to the account the Creeks give of themfelves, this place is remarkable for being the firft town or fettlement, when they fat down, as they term it, or eflablifhed themfelves after their emigration from the weft, beyond the Miffiffippi, their original native country.
Befides thefe, there is Turtle river, Little Sitilla, or St. Ille, Great Sitill, Crooked river, and St. Mary's; which form a part of the fouthern boundary of the United States. St. Mary's river has ite Source from a vaft lake, or rather marn, called Ouaquaphenogaw, and flows through a vaft plain and pine foreft, about one hundred and fifty miles to the ocean, with which it communicates between
Vol.III. $\quad \mathrm{Mm} \quad$ the
the points of Amelia and Talbert's iflands, latitude $30^{\circ} 44^{\prime}$, and is navigable for veffels of confiderable burthen for ninety miles. Its banks afford immenfe quantities of fine timber, fuited to the WeftIndia market. Along this river, every four or five miles, are bluffs convenient for veffels to haul to and load.

The rivers in the middle and weftern parts of this State are, Apalachicola, which is formed by the Chatahouchee and Flint rivers, Mobile, Pafcagoula and Pearl rivers. All thefe ranning fouthwardly, empty into the Gulph of Mexico. The forementioned rivers abound with a great variety of fifh, among which are the mullet, whiting, fheeplhead, cat, rock, trout, drum, bals, brim, white, flead, and fturgeon. The bays and lagoons are ftored with oyfers and other fhell fill, crabs, fhrimps, \&c. The clams, in particular, are large, their meat white, tender and delicate. The fhark and great black ftingray are infatiable cannibals, and very troublefome to the fifhermen.

The lake, or rather marfh, called Ouaquaphenogaw, lies between Flint and Oakmulge rivers, and is nearly three hundred miles in circumference. In wet feafons it appears like an inland fea, and has feveral large iflands of rich land; one of which the prefent generation of Creek Indians reprefent as the moft blifful fpot on earth. They fay it is inhabited by a peculiar race of Indians, whofe women are incomparably beautiful. They tell yon alfo, that this terrefrial paradife has been feen by fome enterprifing hunters, when in purfuit of their game, who, being loft in inextricable fraamps and bogs, and on the point of perining, were unexpectediy relieved by a company of beautiful women, whom they call daughters of the Sun, who kindly gave them fuch provifions as they had with them, confifing of fruit and corn cakes, and then enjoined them to fly for fafety to their own country, becaufe their hufbands were fierce men, and cruel to ftrangers. They farther fay, that thefe hunters had a view of their fettlements, fituated on the elevated banks of an illand, in a beanioful lake ; but that in their endeavours to approach it, they were involved in perpetual labyrinths, and, like enchanted land, fill as they imagined they had juft gained $i_{5}$, it feemed to fly before them. They determined, at length, to quit.the delufive purfait, and with much difficulty effected a retreat. When they reported their adventures to their countrymen, the young warriors were inflathed with an irrefifitible defire to invade and conquer fo chariming a country, but all their attempts had hitherto proved frnitefs, they never being
and is es. Its $=$ Weft e bluffs vardly, rivers nullet, , flead, ers and ar, are 1 great to the retween in cirand has genera1 earth. women reftrial purfuit , andon zany of kindly of fruit sir own ruel to $f$ their beanirere inas they
them. nd wish - advenwith an Tु, but - being able
able again to find the fpot. They tell another flory concerning this fequeftered country, which feems not improbable, which is, that theinhabitants are the pofterity of a fugitive remnant of the ancient Yamafes, who efcaped maffacre after a bloody and decifive battle between them and the Creeks. It is certain, that the Creeks conquered and nearly exterminated that once powerful people; and it is probable, that they here found an afylum, remote and fecure from the fury of their proud conquerors.

Befides the St. Mary; the rivers Sitilla, or St. Ille, and the beautiful Little St. Juan, which empries into the bay of Appalachi at St. Mark's, are faid to flow from this lake.*
About fixteen miles from the mouth of Broad river, on its fouth fide, is what is called the Goofepond, a tract of about one hundred and eighty acres, covered with living water about two feet deep: it difcharges into the river, and is fed by two fprings.

## SOIL, PRODUCTIONS, \&c.

The foil in this State, and its fertility are various, according to fituation and different improvement. The ifflands on the fea board, in their natural flate, are covered with a plentiful growth of pine, oak and hiccory, live oak, an uncommonly hard and a very vat luable wood, and fome red cedar. The foil is a mixture of fand and black mould, making what is commonly called a grey foil. A confiderable part of it, particularly that whereon grow the oak, hiccory and live oak, is very rich, and yields, on cultivation, good crops of indigo, cotton, corn and potatoes. Thefe iflands are furrounded by navigable creeks, between which and the main land is a large extent of falt marh, fronting the whole State, not lefs, on an average, than four or five miles in breadth, interfected with creeks in various directions, admitting, through the whole, an inland navigation between the iflands and main land, from the north-eaft to the fouth-eaft corners of the State. The eaff fides of thefe iflands are, for the moft part, clean, hard, fandy beaches, expofed to the wafh of the ocean. Between thefe illands are the entrances of the rivers from the interior country, winding through the low falt marhes, and delivering their waters into the founds, which form capacious harbours of from three to eight miles over, and which communicate with each other by parallel falt creeks. The principal illands are,

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Skidaway, Waffaw, Offabaw, St. Catharine's, Sapelo, Frederice, Jekyl, Cumberland and Amelia.

The foil of the main land, adjoining the marlies and creeks, is nearly of the fame quality with that of the illands, except that which borders on thofe rivers and creeks which fretch far back into the country. On thefe, immediately after you leave the falts, begin the valuable rice fwamps, which, on cultivation, afford the prefent principal ftaple of commerce. Moft of the rice lands lie on rivers, which, as far as the tide flows, are called tide lands; or on creeks and particular branches of water, flowing in fome deeper or lower parts of the lands, which are called inland fwamps, and extend back in the country from fifteen to twenty-five miles, beyond which very little rice is planted, though it will grow exceedingly well, as experiment has proved, one hundred and twenty miles back from the fea. The intermediate lands, between thefe creeks and rivers, are of ań inferior quality, being of a grey foil, covered chiefly with pine, and a fort of wild grafs and finall reeds, which afford a large range of feeding ground for fock both fummer and winter. Here and there are interfperfed oak and hiccory ridges, which are of a better foil, and produce good crops of corn and indigo; but thefe are very little eievated above the circumjacent lands. The lands adjoining the rivers, and, for an hundred miles in a direct line from the fea, continue a brcadth from twa to three or four miles, and wierever, in that diftance, you find a piece of high land that extends to the bank of the river on one fide, you may expect to find the low or fwamp ground proportionably wide on the oppofite fide of the river. This feems to be an invariable rule till you come to that part-where the river ciats the mountains.
The foil betwcen the rivers, after you leave the fea board and the edge of the fwamps, at the diffance of twenty or thirty miles, changes from"a grey to a red colour, on which groms plenty of oak and hiccory, with a confiderable intermixture of pine. In fome places it is gravelly, but fertile, and fo continues for a number of miles, gradually deepening the reddifi colour of the earth, till it changes into what is called the Mulatto foil, confifting of a black mould and red earth. The compoition is darker or lighter according as there is a larger or fmaller proportion of the black or red earth in it. The mulatto lands are generally ftrong, and yield large c:ops of wheat, tobacco, corn, \&c. To this kind of land fucceeds by turns a foil nearly black and very rich, on which grow large
quan ferer largi rema this: fever: river. filk, figs, F and tion, prefer gratio raft e: that F ftaple clafs $c$. kinds, plantec long, ft the fta for fev killed t quite fo fine, fil: years w much $r$ their plwell ad ticle of $\dot{c}$

Ont found tc by'diftilla made of that a fe fago, anc

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quantities of black walnut, mulberry, \&c. This fucceffion of different foils continues uniform and regular, though there are fome large veins of all the different foils intermixed; and what is more remarkable, this fucceffion, in the order mentioned, ftretches acrofs this State nearly parallel with the fea coaft, and extends through the feveral States nearly in the fame direction, to the banks of Hudfon river. In this State are produced, by culture, rice, indigo, cotton, filk, (though not in large quantities) Indian corn, potatoes, oranges, figs, pomegranates, scc. Rice, at prefent, is the ftaple commodity; and as a finall proportion only of the rice ground is under cultivation, the quantity raifed in future muft be much greater than at prefent. But the rapid increafe of the inhabitants, chiefly by emigrations, whofe attention is turned to the raining of tobacco, and the raft extent of land, with a richnefs of foil fuited to the culture of that plant, renders it probabie, that tobacco will fhortly become the ftaple of this State. Cotton was formerly planted only by the poorer clafs of people, and that only for family ufe. They planted of two kinds, the annual and the Weft-Indian; the former is low and planted every year; the balls of which are very large, and the phlox long, ftrong, and perfectly white. The latter is a tall perennial plant, the ftalk fomewhat flurubby, feveral of which rife up from the root for feveral years fucceffively, the ftems of the former year being killed by the winter frofts. The balls of Weft-India cotton are not quite fo large as the other, but the phlox or wool is long, extremely fine, filky and white. A plantation of this kind will laft feveral years with moderate labour and care. The culture of cotton is now much more attended to ; feveral indigo planters have converted their plantations into cotion fields. The tobacco lands are equally well adapted to wheat, which may hereafter make an important article of commerce.

On the dry plains grow large crops of fweet potatoes, which are found to afford a wholefome nourifhment, and from which is made, by diftillation, a kind of whifky, tolerably good, but inferior to that made of rye. It is by properly macerating and wafhing this root that a fediment or ftarch is made, which has obtained the name of fago, and anfwers all the purpofes of the Indian fago.

Moft of the trepical fruits would flourih in this State with proper attention. The rice plant has been tranfplanted, and alfo the tea plant, of which fuch immenfe quantities are confumed in the United Siates, was introduced into Georgia by Mr. Samuel Bowen, about
the year 1770 , from India. The feed was diffeminated, and the plant now grows, without cultivation, in moft of the fenced lots in Savannah.

From many confiderations we may, perhaps, venture to predit, that the fouth-weftern part of the State, and the parts of Eaft and Weft-Florida, which lie adjoining, will, in fome future time, become the vineyard of America.

## REMARKABLE SPRING.

In the county of Wilkes, wittin a mile and a half of the town of Wanlington, is a medicinal fpring, which rifes from a holJow tree, four or five feet in length. The infide of the tree is covered with a coat of matter, an inch thick, and the leaves around the fpring are incrufted with a fubftance as white as fnow. It is faid to be a fovereign remedy for the feurvy, ferophulous diforders, confumptions, gouts, and every other difeafe arifing from humours in the blood. A perfon, who had a fevere rheumatifm in his right arms having, in the fpace of ten minutes, drank two quarts of the water, experienced a momentary clill, and was then thrown into a perfpiration, which, in a few hours, left him entirely free from pain, and in perfect health.'

This fpring, fituated in a fine healthy part of the State, in the neighbourhood of Wallington, where are excellent accommodations, will no doubt prove a pleafant and falutary place of refort for invalids from the maritime and unhealthy parts of this and the neighbouring States.

## CIVIL DIVISIONS.

Before the revolution, Georgia, like the other fouthern States, was divided into parifies, but this mode of divifion is now abolifhed, and that of counties has fucceeded it.
That part of the State which is laid out, is divided into three difo tricts, which are fubdivided into eleven counties, as follows:

LOWER DISTRICT.

Camden, | Liberty, Effingham. |
| :--- |
| Glyn, | Chatham,?

## MIDDLE DISTRIGT.

Richmoar;
Burke,
Wafhington.

UPPER DISTRICT.
Wilkes, - Franklin, Green.

## CHIEF TOWNS.

The chief towns are, St. Patrick's, Brunfwick, Sunbury, Savannah, Ebenezer, Augufta, Wayneiborough, Louifville, Golphinion, Wafhington, Greenfburgh.

## AUGUSTA.

The prefent feat of government in this State is Augufta. It is fituated on the fouth-weft bank of Savannah river, which is here about five hundred yards wide, about one hundred and forty-four miles from the fea, and one hundred and twenty-feven north-welt of Savannah. The town, which in $1782^{\circ}$ contained but three or fous houres, in 1787 contained two hundred; it is on a fine large plain, at the foot of the firft falls. in the river, which in a dry feafon are four or five feet in height ; and as it enjoys the beft foil, and the adrantage of a central fituation between the upper and lower counties, is rifing faft into importance. In the vicinity of this town is the remarkable large bank of oyiter fhells which we have had occafion before to notice.

## SAVANNAH.

Savannah, the former capital of Georgia, ftands on a high fandy bluff, on the fouth fide of the river of the fame name, and feventeen miles from its mouth. The town is regularly built in the form of a parallelogram, and, including its fuburbs, contained, in 1787, two hundred and twenty-feven dxelling houfes, one Epifcopal church. 2. Prefbyterian church, a Synagogue, and a court houfe. The number of its inhabitants, exclufive of the blacks, amounted at that time to about eight hundred and thirty, feventy of whom were Jews.
In Savannah, and within a circumference of about ten miles from it, there were, in the fummer of 1787 , about two thoufand three hundred inhabitants. Of thefe one hundred and ninety-two were above fifty years of age, and all in good health. The ages of a lady and her fix children, then living in the town, amounted to three hundred and eighty-five years. This computation, which was actually
actually made, ferves to fhew that Savannah is not really fo unhealthy as has been commonly reprefented.

GUNBURY.
Sunbury is a fea port town, beautifully fituated on the main between Medway and Newport rivers, about fifteen miles fouth of Great Ogeechee river; it is favoured with a fafe, capacious, and very convenient harbour, defended from the fury of the feas by the north and fouth points of St. Helena, and South Catherine's inlands, between which is the bar and entrance into the found. Several fmall iflands intervene, and partly ebfruct a diftant view of the ocean; and, interlocking with each other, render the paffage out to fea winding, but not difficult. It is a very pleafant, healthy town, and is the refort of the planters from the adjacent places of Medway and Newport, during the fickly months. It was burnt by the Britifh in the late war, but has fince been rebuilt. An acadeny was eftablifhed here in 1788, which, under an able inftructor, has proved a very ufeful inflitution.

## BRUNSWICK.

Brunfwick, in Glynn county, latitude $32^{\circ} 10^{\prime}$, is fituated at the mouth of Turtle river, at which place this river empties itfelf into St. Simon's found. Brunfwick has a fafe and capacious harbour; and the bar, at the entrance into it, has water deep enough for the largeft veffels that fwim. The town is regularls laid out, but not yet built. From its advantageous fituation, and from the fertility of the back country, it promifes to be hereafter one of the firf trading towns in Georgia.

## FREDERICA.

Frederifa, on the illand of ${ }^{\prime}$ St. Simon, is nearly in latitude $31^{\circ} 15^{\prime} ;$ it is one of the oldeft towns in Georgia, and was founded by General Oglethorpe. The fortrefs was regular and beautiful, conftructed chiefly with brick, but is now in ruins. The town contains but few houfes, which ftand on an eminence, if confidered with regard to the marhies before it, upon a-branch of Alatamaha river, which wafhes the weft fide of this agreeable ifland, and forms a bay before the town, affording a fafe and fecure harbour for veffels of the largeft burthens, which may lie along the wharf.

## WASHINGTON.

Walhington, tiie chief town in the county of Wilts, is fituated in latitude $33^{\circ} 22^{\prime}$, abcut fifty miles north-weft of Auguita; it had, in 1788, a court houfe, gaol, thirty-four dwelling houfes, and an academy, whofe funds amounted to about eigh: hundred pounds fterling, and he number of ftudents to between fisty and feventy.

## LOU゙SVILLE.

Tietown of Louifville, which is defigned as the future feat of government in this State, has been laid out on the bank of Ogeeches siver, about feventy miles from its mourh, but is not yet buit.

> POPULATTON.

The population of this State in 1791 was as follows:
LOWER DISTRICT.


MIDDLE DISTRICT.


Vol.IIL $\mathrm{Nn}_{\mathrm{n}}^{\mathrm{U}}$ UPPER

## UPPER DISTRICT.

| counties. |  |  | 砍 |  | 客 | ¢ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wilkes, Franklin, Greene, | $\begin{gathered} 5152 \\ 225 \end{gathered}$ | $\begin{array}{r} 6740 \\ 243 \end{array}$ | $\begin{array}{r} 12160 \\ 41 \end{array}$ |  | 7268 156 | 31500 1041 |
|  | 1027 |  | . 1882 | 8 | 1377 | 5405 |
|  | 6404 | 8094 | 14459 | 188 | 8801 | 37946 |



## RELIGION AND CHARACTER.

The inhabitants of this State, who profefs the Chriftian religion, are of the Prefbyterian, Epifcopalian, Baptift,' and Methodift denominations. They have but a few regular minifters among them.

No general character will apply to the inhabitants at large. Collected from different parts of the world, as intereft, neceffity, or inclination led them, their character and manners muft, of courfe, partake of all the varieties which diftinguifh the feveral fates and kingdoms from whence they came. There is fo little uniformity, that it is difficult to trace any governing principles among them. An averfion to labour is too predominant, owing in part to the relaxing heat of the climate, and partly to the want of neceffity to excite induntry. An open and friendly hofpitality, particularly to ftrangers, is an ornamental characteriftic of a great part of this people.
Their diverfions are various. With fome, dancing is a favourite amufement; others take a fancied pleafure at the gaming table, Which, however, frequently terminates in the ruin of their happinef, fortunes, and conflitutions. In the upper counties, horfe-racing and cock-fighting prevail, two cruel diverfions imported from Virginia
and emigr ing ; wood. and 0 from witho The activit

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Breakf
the firft pu produce, $x$ boxing ma quaintance before fún rerfaciọ
fupper, a
bottles of $t$ woods, as fis theires difcovered tumeá into About m and faces fa the general and woody colloquial a grats.


## OF GEORGIA.

and the Carolinas, from whence thofe who pracife them principally emigrated. But the moft rational and uaiverial amufement is hunting; and for this Georgia is particular': well calculated, as the woods abound with plenty of deer, racoons, rabits, wild turkeys, aad other game; at the fame time the :roods are fo thin and free from obftructions, that you mav generally ride half fpeed in chace without danger: in this amufement pleafure and profit are blended.* The exercife, more than any other, contributes to health, fits for activity in bufincfs and expertnefs in war ; the game alfo affords

[^33]them a palatable food, and the kins a profitable article of comp merce.

## TRADE AND MANUFACTURES.

The chief articles of export are rice, tobacco, "of which the count of Wilkes only exported, in 1788, about three thoufand hogheads indigo, fago, lumber of various kinds, naval fores, leather, deer , frins, fnake root, myrtle and bees wax, corn, and live-ftrock. The planters and farmers raife large ftocks of cattle, from one hundred to fifteen hundred head, and fome more.

The amount of exports in the year ending September 30th, 1791, was four hundred and ninety-one thoufand four hundred and fe-venty-two dollars. In return for the enumerated exports, are imported Weft-India goods, teas, wines, various articles of cloathing, and dry goods of all kinds. From the northern States, cheefe; fifh, potatoes, apples, cyder, and fhoes. The imports and exports of this State are principally to and from Savannah, which has a fine harbour, and is a place where the principal commercial bufinefs of the State is tranfacted. The trade with the Indians in furs and fkins, was very confiderable before the war, but has fince been interrupted by the wars in which they have been involved. The manufactures of this Staie have hitherto been very inconfiderable, if we except indigo, filk, and fago. The manner in which the indigo is cultivated and manufactured is as follows: the ground, which muft be a ftrong rich foil, is thrown into beds of feven or cight feet wide, after having been made very mellow, and is then raked till it is fully pulverized: the feed is then fown in April, in rows at fuch a diftance as conveniently to admit ofehoeing between them. In July the firit crop is fit to cut, being commonly two and a half feet high; it is then thrown into vats,confructed for the purpofe, and fteeped about thirty hours; after which, the liquor is drawn off into other vats, where it is beat, as they call it, by which means it is thrown into much fuch a fate of agitation as cream is by churning. After this procefs, lime water is put into the liquor, which caufes the particles of indigo to fettle at the bottom. The liquor is then drawn off, and the fediment, which is the indigo, is taken out and fpread on cloths, and partly dried; it is then put into boxes and preffed, and, while it is yet foft, cut into fquare pieces, which are thrown into the fun to dry, and then put up in cafks for the market. They have commonly three cuttings a feafon. A mioddling crop for thirty acres is òne thoufand threè hundred Pourds. 7

The culture of filk and the manufacture of fago are at prefent bus little attended to. The people in the lower part of this State manufacture none of theirow n cloathing for themfelves or their negroes : for almoftevery article of their wearing apparel, as well as for their hurbandry tools, they depend on their merchants, who import them from Great-Britain and the northern States. In the upper parts of the country, however, the inhabitants manufacture the chief part of their cloathing from cotton, hemp, and flax ; and in general manufactures are on the increafe.

## STATE OF LITERATURE.

The literature of this State, which is yet in its infancy, is commencing on a plan which affords the moft flattering.profpects. It feems to have been the defign of the legillature of this State, as far as poffible, to unite their literary concerns, and provide for them in common, that the whole might feel the benefit, and no part be neglected or left a prey to party rage, private prejudices and conten: tions, and confequent ignorance, their infeparable attendant. For this purpofe, the literature of this State, like its policy, appears to be confidered as one object, and in the fame manner fubject to common and general regulations for the good of the whole. The charter, containing their prefent fyftem of education, was paffed in the year 1785 . A college, with ample and liberal endowments, is inflituted in Louifville, a high and healthy part of the country, near the center of the State. There is alfo provifion made for the inftitution of an acalemy in each county in the State, to be fupported from the fame funds; and confidered as parts and members of the fame inftitution, under the general fuperintendence and direction of a prefident 'and board of truftees, appointed, for their literary accomplifhments, from the different parts of the State, invefted with the cuftomary powers of corporations. The inftitutions thus compofed, and united is denominated, "The Univerfity of Georgia."

That this body of literati, to whom is intrufted the direction of the general literature of the State, may not be fo detached and independent, as not to poffefs the confidence of the State; and, in order to, fecure the attention and patronage of the principal officers of government, the governor and council, the fpeaker of the Houfe of Affembly, and the chief juftice of the State, are affociated with the board of truftees, in fome of the great and more folemn duties of sheir office, fuch as making the laws, appointing the prefident, fet-
tling the property, and inffituting academies. Thus affociated, they are denominated, "The Senate of the Univerfity," and are to hold a ftated, annual meeting, at which the governor of the State prefides. . 4 t

The Seftate appoint a board of commiffioners in each county, for the particular management and direction of the academy, and the other fchools in each county, who are to receive their inftructions from, and are accountable to the Senate. The rector of each academy is an officer of the univerfity, to be appointed by the prefident, with the advice of the truftees, and commifioned under the public feal, and is to attend with the other officers at the annual meeting of the Senate, to deliberate on the general interefts of literature, and to determine on the courfe of inftruction for the year, throughout the univerfity. The prefident has the general charge and overfight of the whole, and is from time to time to vifit them, to examine into their order and performances.
The funds for the fupport of their inftitution are principally in lands, amounting in the whole to about fify thoufand acres, a great part of which is of the beft quality, and at prefent very valuable.-. There are alfo nearly fix thoufand pounds fterling in bonds, houfes and town lots in the town of Augufta. Other public property, to the amount of one thoufand pounds in each county, has been fet apart for the purpofes of building and furnihing their refpective academies.

## CONSTITUTION.

The prefent conftitution of this State was formed and eftablifhed in the year 1789 , and is nearly upon the plan of the conffitution of the United States.

## - INDIANS.

The Mufkogee, or Creek Indians, inhabit the middle part of this State, afd are the moft numerous tribe of Indians of any within the limits of the United States: their whole number fome years fince was feventeen thoufand two hundred and eighty, of which five thour fand eight hundred and fixty were fighting men. They are compofed of various tribes, who, after bloody wars, thought it good policy to unite and fupport themfelves againft the Chactaws, scc. They confift of the Appalachies, Alibamas, Abecas, Cawittaws, Coofas, Confhacks, Coofactees, Chacfihoomas, Natchez, Oconies, Oakmulgies, Okohoys, Pakanas, Taenfas, Talepoofas, Weetumkas and fome ethers,
'others. Their union has rendered them victorious over the Chactaws, and formidable to atl the nations around them. They are a well-made, expert, hardy, fagacious, politic people, extremely jealous of their rights, and averfe to parting with their lands. They have aburidance of tame cattle and fwine, turkeys, dücks, and other poultry; they cultivate tobacco, rice, Indian corn, potatoes, beans, peas, cabbage, melons, and have plenty of peaches, plums, grapes, frawberries, and other fruits. They are faithful friends, "but inveterate enemies; hofpitable to ftrangers, and honeft and fair in their dealings. No nation has a more contemptible opinion of the white men's faith in general than thefe people, yet they place great confidence in the United States, and will to agree with them upon a permanent boundary, over which the fouthern States fhall not trefpafs.

The country which they claim is bounded northward by about the 34th degree of latitude, and extends from the Tombeckbee, or Mobile river, to the Atlantic ocean, though they have ceded a part of this tract on the fea coaft, by different treaties, to the State of Georgia. Their principal towns lie in latitude $32^{\circ}$, and longitude $11^{\circ}$ 20 from Philadelphia. They are fettled in a hilly but not mountainous country ; the foil is fruitful in a high degree, and well watered, abounding in creeks and rivulets, from whence they are called the Creek Indians.*

The Chactaws, or flat heads, inhabit a very fine and extenfive tract of hilly country, with large and fertile plains intervening, hetween the Alabama and Miffifippi rivers, in the weftern part of this State. The nation had, not many years ago, forty-three towns and villages, in three divifions, containing twelve thoufand one hundred and twenty-three fouls, of which four thoufand and forty-one were fighting men.

The Chickafaws are fettled on the head branches of the Tonbeckbee, Mobile, and Yazoo rivers, in the north-weft corner of the
*Gencral $M^{\circ}$ Gillivray, the celebrared chief of the Ciceks, is a half-blonded Indian, his mother being a woman of high rank in the Creek nation. He was fo highiy efteerned among them, that they in a formal manner clected him their fovercign, and vefted him with confiderable powers. He has feveral fifters married to leading men among the Creeks. This gentleman would gladly have remaiged a citizen of the United States ; but having ferved ander the Britilh during the late war, his property in Georgia, which was confiderable, was conffcated. This circumftance induced him to retire mong his friends the Creels, fince which he has been an active and zealous partifan in interefts and police.

280 GENERAL DESCRIPTION, \&c.
State. Their country is an extenfive plain, tolerably well watered from fprings, and of a pretty good foil. They have feven towns, the central one of which is in latitude $34^{\circ} 23^{\prime}$, and longitude $14^{\circ} 30^{\circ}$ weft. The number of fouls in this nation have been formerly reckoned at one thoufand feven hundred and twenty-five, of which five hundred and feventy-five were fighting men.

WE have now with candour and a fincere attachment to truth, Iketched the hiffory of the feveral States in the federal union. In order to keep within the bounds profribed in the plan firft propofed; the accounts are reftrained as far as poffible to thofe fubjects which we confidered of the greateft importance, and we have aimed fo to arrange the various fubjects as we truft will afford a fatisfactory anfwer to every queftion which the European inquirer may put refpecting the government, commerce, fociety, learning, \&c. of the United States. To have entered intoo a minute detail of every object that prefented itfelf to our view would have been comparatively ufelefs; it might have gratified the curiofity of a few, but the benefits would have been comparatively fmall to the public. To this we may ddd, that many of the fceres would have been finfting while under defcription, and the object in itfelf impracticable with refpect to fome of the States. In further purfuing our plan, we fhall endeavour,

Ift. To point out a few of the many advantages which America poffeffes over the different countries of Europe.

2d. What the advantages and profpects are which an European fetter has prefented to his view. Under this latter head we fhall aim to convey all the information we can obtain that may prove advantageous in the paffage to, or on the arrival at, what we muft call. 2 LAND OF LIBERTY.

V fectly to be rapic vernr ciples and $c$ TOLE equal foever Tb impres perty, anoth. tives, places tues or laws g . fyfiem form t fwerves diffolvec
plain de city, an fion of $t$ tion in $t$ every in
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## OF THE

## ADVANTAGES

WHICH THE UNITED STATES POSSESS OVER EUROPEAN COUNTRIES.

## IN RESPECT TO GOVERNMENT:

WHILE the governments of mof countries in Europe are per. fectly defpotic, and while thofe which are not actually fuch, appear to be verging faft towards it, the government of America is making rapid ftrides toward perfection; it being contrary to all the old governments, in the hands of the people, they have exploded thofe principles by the operation of which civil and religious difqualifications and oppreffions have been inflicted on mankind, and rejecting mere toleration, they have, with a fmall exception, placed upon an equal footing every church fect, and fociety of religious perfons whatfoever.

Their laws and government have, for their bafis the natural and imprefcriptible rights of man: liberty, fecurity of perion and property, refiftance againit opprefinos, doing whatever does not injure another, a right to concur, either perfonally or by their reprefentatives, in the formation of laws, and an equal chance of arriving to places of honour, reward, or employment, according to their virtues or talents. Thefe are the principles of their conftitution ; and laws grafted upon thefe fimple, bue fubftantial principles, and a fyfiem of legal jurifprudence organized, and acing accordingly, form the effence of their government; and if ever the government fwerves materially from thefe fundamental principles, the compact is diffolved, and things revert again to a co-equal fate. By this plain definition of the nature of laws and government, every capacity, and every individual of the community, can judge with precifion of the purity of legillation; this produces the moft entire convic. tion in the minds of all men, of the neceffity there is of acting, in every inftance, according to the code of reafon and truth. Every

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man in America is equally concerned in the welfare and profperity of his country and its government; for his own felicity can only be coexiftent with it, and to fuffer his ambition to run counter to the general weal would be madnefs in an enlightened commonwealth, as it could only tend to produce his own eternal difgrace and ruin, where the genius of freedom is enthroned in the heart of every citizen.
Europe has long been enflaved by forms and authorities; and while its multifarious laws and cuftoms have ferved to perplex profeffional men, the fophiftry employed in expounding them has completely bewildered the imaginations of its citizens, and produced an obfcurity of ideas upon the fụbject of jurifprudence and government, and a depravity of morals which is trüly deplorable.
Religion, or whatis: called an eftabithment in Europe, has had and continues to have its fhare in rivetting the fetters of ignorance. The elucidation of truth has been retarded by the tyranny of the church; for while priefts bave been the pedagogues af religion, morals, fentiments, and politics, their interested views have caured them to flatter thofe governments whofe intereft it has been to keep the people ignorant, becaufe it has fecured to them the undifturbed divifion of the fooils of the great bulk of induftrions citizens, while they were offering an indignity to the Deify as grofs as their fyftem bas been unnatural and unjuft. What can be a greater prefumption, or a higher pitch of arrogance, than prefuming to arraign or judge of the fentiments of men, the propriety of which is' to be determined before a tribunal in Heaven? It is an infult too grofs to merit a comment. It has been fubverfive of all good morals, by af, fording a veil to cover the hypocrify of the moft defigning knares.-

In America this evil has ceafed to exift, the monfter is deftroyed, the unnatural alliance of church and fate is broken, and the people left to the choice of their own religion, as well as of their own paftors ; while they revere. the former, will no doubt reward the latter as they merit ; they will make a rapid .jrogrefs in all the focial virtues, while a clafs of men, who, from being privileged, had become the curfe of Europe for more than three centuries, will in America, from the lofs of all privileges but thofe which are the reward of piety and virtue, be the means of extending the knowledge and hap; pinefs of the human race.

In the United States, every man who is taxed has a vote in the appointment of the reprefentatives of the State in which he refides, as well as of the general government. Thus the people have the privilege of objecting to fuch characters for their governors as have not the public approbation; which has the good effect of producing harmony betweenthe government and the people-of obliging men who afpire to the honours of their country to refpect the public opinion; and as all the powers of government originate with, fo they revert to the people; the judiciary they have referwed to themfelves through the medium of juries. The legiflative they intruft to their reprefentatives who are effentially the fame; and the executive emanates from the legiflature, fo that the whole are ultimately refponfible to the people. The executive to the reprefentatives, and the reprefentätives to their conflituents.
A free government has often been compared tô a pyramid. This 3lufion is made with peculiagepropriety in the fyftêm of government adopted by the United States; it is lata on the broad bafis of the people; its powers gradually rife, while they are confined, in proportion as they afcend. When you examine all its parts, they will invariably be found to preferve that effential mark of free government, and without which fuch a government cannot exift-a chain of connection with the people. The advantages refulting from this fyftem, :while they are great, will not be confined to the United States, it will draw from Europe many worthy characters who pant for the enjoyment of freedom. It will induce princes, in order to preferve their fubjects, to reftore to them a portion of that liberty of which they have for many ages deprived them. It will be fubfervient to the great defigns of Providence with regard to this globe, the multiplication of mankind, their improvement in knowledge, and their advancement in happinefs.
Nor are the immitable principles on' which the American government is built, its only advantage to the people at large; the fame fpirit that fixed it on the bafis of liberty has contributed to make the offices of government, pofts of honour and not of profit ; hence the American government is adminiftered at an expenfe fo exceedingly trifling, that had the affertion been made of the practicablenefs of it a few years back, it would have obtained no credit. It is a well-known fact, that the general government of America does not amount to within forty thoufand pounds per annum of the Englifh penfion lift; and if the government of the feparate States are added to it, it cure places would make to the penfion lift in Great-Britain; yct men of character and abilities are not wanting to fill its refpective offices; but on the contrary, while the fpirit of the government, by opening the channel of promotion to every individual, is truly favourable to the growth of genius, a virtuous ambition to be infrumental in promoting the happinefs of mankind, always enfures a fufficient number of candidates for public confidence.

IN RESPECT OF NATIONAL DEET.
The debt of the United States is divided into two claffes, foreign and domeftic. Thie foreign debt is compofed, in capital, of a loan made in France of twenty-four millions of livres at five per centr; another made in Holland, under the guarantee of France, of ten millions at four per cent. both amounting in dolliars to $\quad \therefore \quad 6,296,296$ Spain at five per cent. . . . . . . . . . . ... . 174,01 I In Holland, in four different loans . . . . . . . . 3,600,000

Total capital . . . . ; . . . . . . . . . . . . 10, 070,307
Intereft to December 31, 1789 . . . . . . . . . . 1,651,257

Domeftic debt liquidated, capital and intereft, to the
$3^{\text {rift }}$ of December, 1790 . . . . . . . . . . . 40,4 44,08 ;
Not liquidated, eftimated at . . . . . . . . . . . 2,000,000
Total, foreign and domeftic
$54,124,464$
In the profecution of the war each individual ftate had occafion to contract a debt of its own, which, for a variety of reafons, it was thought beft that the Congrefs fhould affume and add to the general mafs of the debt of the United States.
The fums thus affumed, which are fuppofed to abforb nearly the whole of all the flate debts, amount
in the whole to . . . . . . . . . . . . . . . $25,000,000$
So that the total amount of the prefent debt of the United States is 79,124,464
Annual intereft of this fum, as flipulated ....... 4,587,444

Thus we fee that the Americans pay lefs than a million ferling a year, including the expenfes of their government for having maintained their liberty ; while Great-Britain pays more than four millions fterling additional annual expenfe for having attempted to deprive them of it; and by the meafures taken by the new government, the Americans are in a fair way notenly to pay their intereft, but to fink the principal of their debt, and that without direct taxation.

- Thus while the European govertments draw annually from their fubjects at leaft one fourth of their bona fide property to defray the intereft of their public debt, the citizens of the Uuited States are fcarce fenfible of any burthen arifing therefrom; nay, on the contrary; in its prefent flate, it is to them a real national advantage.*


## 

This is far from being the leaft of the advantages which America poffefles over European nations. In the greater part of Europe the
\% If the fecret hifory of the debt contracted in France were publifhed, it would cif-
cover the origin of many fortunes which have aftonifhed us. It is certain, for infance,
that M. de Vergennes difpofed of thefe loans at pleafure, caufed military fores and mer-
chandife to be furnifhed by perfons atbached to him, and fuffered not their accounts to
be difputed. It is a fact, that in his accounts with Congrefs, there was one million of
livres that he never accounted for, after all the demands that were made to him. It is
likewife a fact, that out of the forty-feven millions pretended to be furnished in the
above articles, by France to Congrefs, the employment of twenty-one millions is without
vnuchers.
M. Bcanmarchais, in a memoir publifhed fome years ago, pretends to be the creditor
of Congrefs for millions. There is a report made to Congreis by two refpestable mem-
bets, in which they prove, that he now owes Congrefs feven hundred and forty-iwo
thoufand four hundred and thirteen livres, and a million more, if the wandering mil-
of the manouvres practifed to deceive the Americans.
Scarce a doubt, we think, can be eniertained, but when the government of France
that be fecured by external and internal trainquillity, it will caife fome account to be
rendered of the fums-fquandered in the part which France took in the American war;
or rather the fums which, infead of going to fuccour thofe brave frugglers for liberty,
went to adom the bed-chambers of an attris: Adeline did noreminchief to the Ame-
ricans thain a regiment of Heftans.

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diffance between the higher and lower clafles of fociety is fo great, as to beget on the part of the former a fupercilious haughtinefs, and almoft total neglect of all the focial virtues. The fituations in which the privileged ariftocracy of Europe are placed, may be confidered as hotbeds of vice, ignorance, and foily-nurfed in principles of tyranny and fuperfition-born, as many of them are, to the enjoyment of unearned honours, and riches derived from plunder-placed in fituations where they can gratify every luft and every brutal appetite, almoft without controul-and enjoy every advantage that ought only to be the reward of virtue, without application to honeft induftry, it is not to be wondered at that they are funk in the fcale of rational beings, and degraded below the level of virtuous fociety. Perhaps a more contemptible figure cannot be imagined, if properly confidered, than what this clafs of men in the general prefent to our view throughout Europe. Often without a fingle virtue, rolling at eafe in fplendor and profulion, prejing upon the fruits of honeft induftry, and devouring the hard-earned morfel of the virtuous peafant. But this is not all, their depravity of manners and boundlefs courfe of diffipation and debauchery, extend their baneful influence through all the lower claffes of fociety, and poifon all the channels of human happinefs. In America, this clafs of men are unknown, the mafs of inhabitarts, exclufive of fervants, confifts of thofe who poffers in fee fimple from one hundred to five hundred acres of land, actually in cultivation, together with the tradefmen inmediâtely dependent on agriculture, moft of whom are likewife farmers, with the forekeepers and mechanics in the different towns; no part of fociety preys on the other, but all contribute to the general good. A mediocrity of fituation is common throughout the Amierican States; there are few, indeed, whofe incomes will reach two thoufand pounds fterling per ann. and the number nearly as fmall, and perhaps frmaller, who are reduced to a dependent fituation. This happy medium is productive of the moft beneficial confequences to their morals and their happinefs; it fupports that firitit of independence and love of liberty which laid the foundation of their government; it keeps far diftan: that fervility fo common to the lower orders of Europeans, and preferves them from the mifery and wretchednefs attendant on following the vices of the privileged orders.

## VARIETY OF CLIMATE; SOIL AND PRODUCTIONS.

The United States poffefs in this refpect an advantage over moft of the European kingdoms, for they are not only fubject to the gradations from almoft extreme heat to extreme cold, but feem capabie of fupplying almoft all the productions of the earth. Situated in the northern divifion of that extenfive portion of the globe, between the thirty-firft and forty-fixth degrees of northern latitude; the extreme length of their territory is about one thoufand two hundred and fifty miles, the breadth about one thoufand and forty. The fuperficies are computed to be fix hundred and forty million acres of land and water : after deducting the fpace occupied by the capacious lakes and mighty rivers, which fertilize and accommodate this country, and occupy above a feventh part of its furface, there remain about five hundred and ninety millions of acres of faft land.

In fo very extended a fcene as might be naturally expected, the fruits of the earth are many and various : we find even in the prefent half-tried ftate of the capacities of the different foils and climates, a lift of invaluable productions, fome found by the firft difcoverers of the country, others introduced by mere accident, and others tranfported from Europe, during the fimple fate of agriculture in the laft century. In the fouthern latitudes, particularly the States of Georgia, South-Carolina, and North-Carolina, rice, much fuperior ta that of Italy or the Levant, is raifed in very great quantities. The comparative value of this grain is twenty-five per cent. in the Englifh markets for the American, more than the Italian or Levant rice : and from the ample quantity and goodnefs of American rice, it appears that little, if any, Mediterranean rice is now imported into England, - as it has for fome time been omitted in the general account of prices. The South-Carolina crop alone, of 1789 , appears to have been above one hundred thoufand tierces, weighing fixty millions of pounds. It is expected that Virginia will add this article to her lift of exports, as it is fuppofed a large body of fwamp in her moft eaftern counties is capable of producing it; and mountain rice has been raifed by way of experiment in the new country near the head of the Ohio.

Tobacco is a ftaple article of all the Sates, from Georgia as far north as Maryland, including both. Virginia alone, generally exported before the revolution, fifty-five thoufand hogtheads, weighing fifty-five millions of pounds; Maryland thirty thoufand hogfheads. The Carolinas and Georgia, which raifed but little of this article be-
fore the revolution, have, of late years, produced very large quantities : and as Virginia and Maryland are turning more of their attention to the cultivation of wheat, Indian corn, flax, and hemp, the Carolinas and Georgia will probably extend the cuitivation of this plant; to which their foil and climate are well fuited. "The foil of Kentucky and the Cumberland and Tenneffee country feems alfo to be eminently calculated for the culture of this plant.

Indigo, of an excellent quality, is produced by North-Carolina, South-Carolina, and Georgia. Of this valuable commodity, one million three hundred thoufand pounds weight have been fhipped from the city of Charlefton alone in one year: but this, and the other two articles before mentioned, are raifed in much leís proportions in North-Carolina than in South-Carolina and Georgia. The uniform of the national troops has been heretofore of blue cloth, as alio of the militia in general. Their ciergy alfo by their cuftoms wear this colour, and it is generally liked among the moft frugal and moft expenfive people. Thefe circumftances will no doubt be duly attended to in future laws and regulations, and will operate very favourably for the indigo planters, without any expcofe to the country.
Cotton has been lately adopted as an article of culture in the fouthern States; and as the prices of rice, tobacco, and indigo decline, it muft be very beneficial to the owners and purchafers of lands in that part of the Union. This article is raifed with eafe in Spain, every part of which kingdom lies further north than the Carolinas, and in the fame latitudes as Virginia, Maryland, and the Delaware States. It is alfo raifed in that part of Afiatic Turkey which lies beturen Scanderoon and Simyrna, which are in the latitudes of the three laft States. As the inhabitants increafe very rapidly by emigration and the courfe of nature, it is certain they cannot procure wool from their own internal refources in fufficient quantities. The owners of cotton plantations may therefore expect a conftant and great demand for this article, as a fubfifutute for wool, befides its ordinary ufes for light goods.
Tar, pitch, and turpentine are prodiced in immenfe quantities in North-Carolina, which State flips more of thefe articles, particularly the laf, than ali the reft of the Union. Tar and pitch are alfo produced in the fouthern parts of Jerfey, and more or lefs in all the States fouthward oi that.

Befaes thefe, myrtle wax, and thofe two invaluable timbers, the live oak and red cedar, are peculiar to the Carolinas and Georgia;
and they have Indian corn, hemp, flax, boapds, faves fhingles, leather, beef, pork, butter, minerals ${ }_{2}$ foffils, and many other articles in common with the middle, or ealtern States; alfo Ikins, furs, and ginfeng from their Indian country.
The wheat country of the United States lies in Virginia, Mary: land, Delaware, Pennfylvania, New-Jerfey, and New-York, and the wefternmoft parts of Connecticut, as alfo the weftern parts of the two Carolinas, and probably of Georgia, for their own ufe. The character of the American flour is fo well known, that it is unneceffary to fay any thing in commendation of it here. Virginia exported before the war eight hundred thoufand buhtels of wheat; Maryland above half that quantity. The exports of flour from Pennfylvania with the wheat was equivalent to one million two hundred thoufand bufhels in ${ }_{17} 88$, and aboat two millions of buffels in $\mathrm{I}_{7} 89$, which, however, was a very favgurable year. New York exports in flour and wheat equivalent to one million of buthels. In the wheat States are alfo produced great quantities of ludian corn or maize. Virginia formerly exported half a million of buhels per ann. Maryland flips a great deal of this article, and confiderable quantities raifed in Delaware, Penfylvania, New-Jerfey, New-York, and Connecticut, are/ex= ported; as are the wheat and flour of thofe fise States, from Philadelphia and New-York, there being littie foreign trade from Delaware or Jerfey; and the weftern parts of Connecticut flipping with lefs expenfe from the ports on Hudfon's river than thofe of their own State.
Hemp and flax are raifed in very large quantities thronghout the United States. And though South-Carolina and Georgia produce lefs than any other States of thefe two articles, they are capable of rainng immenfe quantities. Georgia, from the adrantage fhe has in the river Savannah, could produce hemp with the greateft profit, Large portions of the new lands of all the States are well fuited to hemp and flax.
Though fheep are bred in all parts of America, yet the moft populous parts of the middle States, and the eaffern States which have been long fettled, and particularly the latter, are the places where they thrive beft. In the four eafern or New-England States, they form one of the greateft objects of the farmer's attention, and one of his fureft fources of profit. The demand for wool, which has *of late increafed exceedingly with the growth of manufactures, will add confiderably to the former handrome profits of gheep; and the
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confumption of meat by the manufacturers with render them fill more beneficial.

Horned or neat cattle are alfo bred in every part of the United States. In the weftern counties of Virginia, the Carolinas, and Georgia, where they have an extenfive range, and mild winters without fnows of any duration, they run at large, and multiply very faft. In the middle States, cattle require more of the care and attention they ufually receive in Europe, and they are generally good, often very fine. But in the eaftern States, whofe principal objects on the land have until lately been pafturage and grazing, cattle are very numerous indeed, and univerfilly fine; cheefe is, of courfe, moft abundant in thofe States. No Erropean country can excel the United States in the valuable article of falt provifions. Their exports of this kind are every day increafing; as the raifing of cattle is peculiarly profirable to farmers, the greater part of whom have more land than they can cultivate even with the plough. Barley and oats are the productions of every State, though leaft cultivated to the fouthward. Virginia, however, is turning her attention to barley, as alfo Maryland, and can raife great quantities.

Mafts, fpars, faves, heading, boards, plank, fcantling, and fquare timber, are found in almoft all the States: but New-Hampfhire, and the adjoining province of Maine, which is conneeted with Maffachufetts, are the two moft plentiful feenes : the ftock there feems almoft inexhauffible, : In New-York they abound; and in North-Carolina and Georgia, the pitch-pine plank, and frantling, and oak flaves, are excellent, efpecially in the former. The ftock of thefe articles on the Chefapeak and Delaware bays is more exhaufted ; but yet there is a great deal on the rivers of both for exportation, befides abundance for home confumption. Confiderable quantities are alfo brought to the Charlefton market, but a large part of them is from the adjacent States of Georgia and North-Carolina. When their internal navigation fhall be improved, South; Carolina will open new fources of thefe articles.
Pot and pearl afhes, have become very valuable articles to the land-holders and merchants of the United States; but their importance was unknown twenty years ago. A fingle fàt will illuftrate the wealth that may be acquired by this manufacture. The State of Maffachufetts, which has been fettled twice as long as the other States on a medium, which contains about a fiftieth part of the territory of the United States, which is among the moft populous of them, and
confequently muft have far lefs wood to fpare than many other parts of the Union, has neverthelefs Mipped two hundred thoufand dollars worth of thefe two articles in a year. New-England and New-York have derived great advantage ${ }^{\circ}$ from their attention to pot and pearl afhes; but it has hitherto been made in very inconfiderable quantities in the States to the fouthward of them: in moft of them it has been entirely overlooked. New-Jerfey and Delaware have more forefts than Maffachufetts; and as there is no part of either of thofe States that lies twenty-five miles from navigable water, they may venture to expend their wood, and to depend upon coal. In the other fix States, which lie fouth of Hudfon's river; the materials for pot afh are immenfe, as alfo in the State of New-York.

A grand dependence of the eaftern States is their valuabie finheries : a detail of thefe is unneceffary. It is fufficient to fay, that with a fmall exception in favour of New-York, the whole great fea fiflery of the United States is carried on by Newr-England; - and it is in 2 variety of ways highly beneficial to their landed and manufacturing interefts.
-Iron is abundant throughout the Union, excepting New-England and the Delaware State, though the former are not deftitute of it, and the latter can draw it as conveniently from the other States on the Delaware river, as if it were in her own bowels: Virginia is the State moft preguant with nifzerals and foffils of any in the Union.

Deer fkins and a variety of furs are obtained by all the States from the Indian country, either directly or through the medium of their neighbours: Hitherto they have been exported in large quantities; but from the rapid progrefs of American manufactures, that exportaGoon muft diminill.

The article of pork, to important in navigation añ trade, mérits particular notice. The plenty of maft or nuts of the oak and beech, in fome places, and of Indian corn every where, occafions it to be very fine and abundant. Two names among them are pre-eminent, Burlington and Connecticut; the firft of which is generally given to the pork of Pennfylvaniag and the middle and northern parts of Jerfey; the fecond is the quality of all the pork north of Jerfey. It may be fafely affirmed; that they are fully equal to the pork of Ireland and Britany, and much cheaper.

Cider can be produced with eafe in confiderable quantities, from Virginia inclufive, to the moft rorthern States, as alfo in the weftern $\mathbf{P P}_{2}$ eountry

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country of the Carolinas and Georgia; but New-Jerfey and NewEngland have hitherto paid moft attention to this drink. An exquifite brandy is diftilled from the extenfive peach frchards, which grow upon the numerous rivers of the Chefapeak, and in parts of Penafylvania, and may be made in the greater part of the country.

Silk has beetr attempted with fuccefs in the fouthernmoft States; fo far as due attention was paid to it ; but is not well fuited to the nature of their labourers, who, being blacks, are not careful orfkilful; and there are many other objects of more importance and profit in the agriculture of thofe fertile States. In Connecticut, where there is a fenfitle and careful white population, and where land is comparatively fcarce and dear, it is found to be practicable and beneficial. A project to extend the white Ttalian mulberry tree over all the States has been formed, by fonef perfevering individuals acquainted with the propagation of them. A great part of Connecticut is already fupplied. An extenfive nurfery has been eftablifhed near Philadelphia; another at Princeton in Newifferfey; and two more are at this time commenced on New-York and Long-Iflands.

Rye is produced generally through all the States north of the Carolinas, and in the weftern parts of the three fouthern States. Bur the detail of American productions, and the parts in which they moft abound, would be very long. It till therefore be fufficient to fay, that in addition to the above capital articles, the United States produce or contain, flax-feed, fpelts, lime-ftone, alum, faltpetre, lead, copper, coall, free-ftone, marble, fone for wares, potters' clay, brick elay;, a variety of firip-timber, flingles, holly, beech, poplar, curled o maple, black walnut, wild cherry, and other woods fuitable for ca-binet-makers, flingles of cedar and cyprefs, myrtle-wax, bees-wax, butter, tallow, hides, leather, tanners' bark, maple fugar, hops, muftard feed, potatoes, and all the other principal vegetables; apples, and all the other principal fruits; clover, and all the other principal graffes. On the fubject of their productions it is only neceffary to add, that they muft be numerous, diverfified, and extremely valuable, as the various parts of their country lie in the fame latitude as Spain, Portugal, the middle and fouthern provinces of France, the fertile illand of Sicily, and the greater part of Italy, European and Afiatic Turkey, and the kingdom of Chiaja, which maintains by its own agricuiture more people than any coutry in the world beffide.

From the fe few obfervations we may form fome idea of the adrantages which the United States poffefs over meft European countries in thefe refpects; it may be truly faid, that there is not a huxury of nature but their foil is capable of yielding, and which the climate in one part or other of their territory would-not bring to perfectionts They can cultivate with eafe every raw material for different mani:factures which the furface of the earth yields, and its bowels yiekd them every neceffary metal and foffil.

Connected with this, we may mention another advantage which the States poffefs; this is the eafe with which the produce of one State may be conveyed, by water, to another, with a very trivial addition of expenfe. There is in this refpect a ftriking difference between the navigable waters of the United States and thofe of any country in the old world. The Elbe is the only river in Europe which will permit a fea veffel to fail up it for fo great a length as feventy miles. The Hudfon's, or North river, between the States of New-York and New-Jerfey, is navigated by fea veffels one hundred and eighty miles from the ocean; the Delaware, betweert:Pennfylvania, New-Jerfey, and the Delaware State, one hundred and fixty miles; the Potomack, between Virginia and Maryland, three hundred miles; and there are feveral other rivers, bays, and founds, of extenive navigation, far exceeding the great river Elbe. The inland boatable waters and lakes are equally numerous and great.

When we confider thefe, and extend our ideas to the different sanals already formed, and ftill forming, by which the moft important rivers are, or will be united, we may venture to affert, that no country in Europe does, or poffibly can poffefs fo completely the advantages of inland navigation; by this the extremes of the confederacy, will become intimately united and acquainted with each other, and each State will reap from the produce of the whole nearly the fame advantage as though it poffeffed every refource withinitfelf; indeed, no doubt can by a reflecting mind be entertained, but that the time is near when a communication by water will be opened with every part of the Union.

In a country thus circunftanced, producing the great raw materials for manufactures, and poffeffing unlimited powers, by water and refources of fuel, fubject alfo to heavy charges upon the importation of foreign fabrics, to neglect manufactures would have been almoft criminal. Thefe important ideas have taken full poffeffion of the American mind. The theory is now every where approved; and in

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New-England; Pennfylvania, and feveral other States, the practice has been taken up with confiderable fpirit and very extenfively purfued

Thefe are but a few of the advantages America poffeffes over the different nations in Europe, but they are fuck as have laid the foundation of her prefent; and which infure her future profperity.

We fhall now proceed to ftate as briefly as poffible the profpects and advantages which the European fortler has almoft the certainty of realizing.
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the re have e the fe confcic gratior fying t a ftop in wea Hence moft tr fons to to a ur Philade origina proof o perate that th temper the pul from a Canaan. țion, c

## PROSPECTS AND ADVANTAGES

OFAN

## EUROPEAN SETTLER

IN THÉ UNITED STATES.

BEFORE we enter on this part of the work, we wifh to premife to the reader that we thall proceed with caution. The numbers that have emigrated to America from this couñtry have already awakened the fears of fome, and the envy of others; and fome who appear confcious of the confequences that muft follow from a fpirit of emigration, have thought it their duty to ftép forward, and by magnifying trifling difficulties into infurmountable obitacles, attempt to put 2 ftop to a fyftem, which, though its effects are flow, are not the lefs fure in weakening the ftrength and refources of the European counties, Hence flight fkirmirhes with the Indians. have been magnified to the moft tremendous battles. The refiftance of a fmail portion of perfons to the levying of a tax in one or two States has been worked up to a univerfal rebellion throughout the Union. A fever ragiog at Philadelphia for a fhort period, and which is now admitted to have originated in the expofure of damaged coffee, has been held forth as a proof of an unhealthy climate throughout the States; and the intemperate zeal of a fẹw iṇdividuals has been confidered a fưficient proof that the whole body of Americans are averfe to the prudent and temperate conduct of their government. The impreffions made on the public mind by thefe means have received additional ftrength from a few individuals, who, like the fpies fent to view the land of Canaan, have, through idlenefs, or attachment to European diffipation, caft away the clufters of grapes, and returned with an evil re-

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port of the land. If we credit thofe, the United States are ruined-.. trade is bad---every thing is dear--all is confufion--the people flaves ---and the United States unable to furnifh employment or fupport to thofe who wifh there to take up their refidence. Thefe, and almoft ten thoufand other evils are conveyed to us through the medium of letters inferted in the daily papers dated from different parts of America, but which carry with them-internal evidence of being the production of hireling fcribblers, employed for the purpofe of mifleading the unthinking mind.

In order therefore to follow this fubject through all its connectrons, and to fet the profpects of an European fettier in a clear point of view, it will be neceffary to proceed in the inquiry under fome kind of fyitem, that its different parts may ftand clear and diftinct, and yet form one connected whole. As an introductory part it may therefore be neceffary to rectify fome miltaken notions of Europeans refpecting the American States.

## MISTAKEN NOTIONS OF EUROPEANS.

Many perfons in Europe appear toahave formed miftaken ideas and expectations of what is to be obtained in America; it may therefore be ufeful, and prevent inconvenient, expenfive, and fruitlefs removals and voyages of improper perfons, to give fome clear and truer notions of that part of the world than appear to have hitherto pre. wailed,

It is imagined by numbers, that the inhabitants of North-America are rich, capable of rewarding, and difpofed to reward all forts of ingenuity; that they are at the fame time in a great degree ignorant of all the fciences; and confequently that ftrangers poffeffing talents in the belles lettres, fine arts, sic. muRbe highly efteemed, and fo brell paid as to become ealily rich themfelves; that there are alfo zbundance of proftable offices to be difpofed of, which the natives are not qualified to fill; and that having few perfons of family among them, frangers of birtb muif be greatly refpected, and of courfe eafily obtain the beft of thole offices, which will make all their fortunes; that the gavernments too, to encourage emigrations from Europe, not only often pay the expenfe of perfonal tranfportation, but give fands gratis to ftrangers, with negroes to work for them, utenfils of Fufbatry, and ftocks of cattle. Thefe are, in the general, wild inaginations ; and thofe who go to America with expectations founded ppon them, will furefy find themfelves difappoinfed.

The truth is, that though there are in America few people of the defcription of the poor of Europe, there are alfo very feys that in Europe would be called rich. It is rather, as before obferved, a general happy mediocrity that prevails. There are few great proprietors of the foil, and few tenants; moft people cultivate their own lands, or follow fome handicraft or merchancife; very few are rich enough to live idly upon their rents or incomes, or to pay the high prices given in Europe for paintings, flatues, architecture, and the other works of art that are more curious than uifful. Hence the natural geniufes that have arijen in America, with fuch talents, have in general quisted that country for Europe, where they can be more fuitably rewarded. It is true that letters and mathematical knowledge are in efteem there, Dux they are at the fame time more common than is apprehended; there beins already exifting numerous colleges or univerfities, for the moft part furnifhed with learned profeffors, befides a number of fraller academies. Thefe educate many of their youth in the languages, and thofe friences that qualify men for the profeffion of divinity, law, and phyfic. Strangers, indeed, are by no means excluded from exercifing thot: profeffions; and the quick increafe of inhabitants every where gives ${ }^{-}$ them an almoft certainty of employ, which they have in common with the natives. Of civil offices or employments there are few; no fuperfluous ones as in Europe; and it is a rule eftablifhed in fome of the States, that no office fhould be fo profitable as to make it defirable for the income. The thirry-fixth article of the conftitution of Pennfyivania runs exprefsly in thefe words: "As every freeman, to preferve his "independence, if he has not a fufficient eftate, ought to have fome " profeflion, calling, trade, or farm, whereby he may honeftly fub" fift, there can be no neceflity for, nor ufe in eftablifhing offices of " profit; the ufual effects of which are dependence and fervility, un"beeoming freemen in the poffeffors and expectants, faction, con"tention, corruption and diforder among the people. Wherefore, "whenever an office, through increafe of fees or otherwife, becomes "fo profitable as to occafion many to apply for it, the profits ought "to be leffened by the legiflature."
Thefe ideas prevailing more or lefis in all the United States, it cannot be worth any man's while to expatriate himfelf in hopes of obtaining a profitable civil office in America; and as to military offices, they ended with the war, the armies being difbanded and reduced to anational militia. Much lefs is it advifeable for a perfon to go thither who has no other quality to recommend him thatn his birth. In Vol. III.

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Europe it has, indeed, its value; but it is a commodity that cannot be carried to a worife market than to that of America, where people do not inquire concerning a itranger, What is be? or, Who is be? but What can be do? If he has any ufeful art he is welcome; and if he exercifes it, and behaves well, he will be refpected by all that know him : but a mere man of quality, who on that account wants to live upon the public, by fome office or falary, will be defpifed and difregarded. The hulbandman is in honour there, and even the mechanic, becaufe their employments are ufeful. The people have a faying, that "God Almighty is himfelf a mechanic, the greateft in the univerfe:" and a man is refpected and admired more for the variety, ingenuity and utility of his handyworks, than for the antiquity of his family. They are pleafed with the obfervation of a negro, and frequently mention it, that "Boccarorra (meaning the white man) make de black man workee, make de horfe workee, make de ox workee, make ebery ting workee, only de bog. He de bog, no workee; he eat, he drink, he walk about, he go to fleep when he pleaie, be libb tike a gentleman." According to thefe opinions of the Americans, one of them would think himfelf more obliged to a genealogift, who could prove for him, that his ancettors and relations, for ten generations, had been ploughmen, fmiths, carpenters, turners, weavers, tanners, or fhoemakers, and confequently, that they were ufeful members of fociety; than if he could only prove that they were gentlensen, doing nothing of value, but living idly on the labour of others, mere fruges confumere nati,* and otherwife good for notbing, till, by their death, their eftates; like the carcafe of the negro's gentleman-bog, come to be cut up.

With regard to encouragements to ftrangers from the American government, they are really only what are derived from GOOD LAWS AND genuine liberiy. Strangers are welcome becaufe there is room enough for them all, and therefore the old inhabitants are not jealous of them; the laws protect them fufficiently, fo that they have no need of the patronage of great men; and every one will enjoy fecurely the profits of his induftry. But, if he does not bring a Eortune with him, he muft work and be induftrious if he gains one. One or two years refidence give him all the rights of a citizen; but she government does not at prefent, whatever it may have done in

[^34]Merely to eat up the carn.

If the above obfervations are confidered as true, it may naturally be afked, what are the general inducements to Quip 'EUROPE FOR THE PURPOSE OF SETTLING IN AMERICA?

To this query we fhall, without befitation, reply, that the firft and principal induccement to an European to quit his native country for America, is the total absence of anxiet respecting the future success of a family. There is little fault to find with the government of America, either in principle or in practice; they have very few taxes to pay, and thofere of acknowledged neceffity, and moderate in amount : they have no animol ties about religion; it is a fubject about which no queftions are afked : they have few refpecting political men or political meafures : the prefent irritation of men's minds in Great-Britain, and the difcordant ftate of fociety on political accounts, is not known there. The government is the government of tae people, and for the people. There are no tythes nor game laws; and excife laws upon fpirits only, and fimilar to the Britifh only in name. There are no men of great rank, nor many of great riches. Nor have the rich there the power of oppreffing the lefs rich, for, as we have before obferved, poverty, fuch as is common in Great.Britain, is almoft unknown; nor are their ftreets crowded with beggars; Mr. Cooper obferves, he faw but onie only while he was there, and that-was an Englilhman. You fee no where in America the difgufting and nre-
lancholy cortraft, fo common in Europe, of vice, and filth, and rags, and wretchednefs, in the immediate neighbourhood of the moft wanton extravagance, and the moft ufelefs and luxurious parade. Nor are the common people fo depraved as in Great-Britain. Quarrels are uncommon, and boxing matches unknown in their ftreets. They have no military to keep the people in awe, nor hired fpies and informers to pierce the inmoft receffes of fociety, and to call forth one part of a family againft another; thus deftroying domeftic quiet and public happinefs. Robberies are very rare. There was not a burglary in Philadelphia during the fever there, though no one ftaid in the town who could leave it. All thefe are real advantages; but great as they are, they do not weigh with us fo much as the fingle confideration firft mentioned.

In England the young man flies to profitution, for fear of the ex. penfe of a family eftablifhment, and the, more than probable, extravagance of a wife; celibacy is a part of prudence; it is openly commended, and as fteadily practifed as the voice of nature will allow. The married man, whofe paffions have been ftronger, whofe morals have been lefs callous, or whofe intereft has furnifhed motives to matrimony, doubts whether each child be not a misfortune, and looks upon his offspring with a melancholy kind of affection, that embitters fome of the otherwife moft pleafurable moments of his life. There are exceptions to this from great fucceess in the purfuits of the father; there are exceptions from flronger degrees of parental affection; and the more fanguine look forward with ftronger hope: but we have feen too much not to be fatisfied of the perfect truth of this general pofition. We do not care what may be the fituation in life of the parents, or the rank to which they belong; from the labourer at fix or feven fhillings per week, and many thoufands of fuch there are in Great-Britain, to the peer of twenty-five thoufand pounds per annum, through many intermediate ranks, we have had too frequent occafion to obferve this melancholy fact.

In the former inftance, the labourer confoles himfelf, with tears in his eyes, for the lofs of his children, becaufe be bas one or more lefs to provede for; and in the fecond inftance his lordmip retrenches his pleafures bec.aufe be bas a large family.

In America, particularly out of the large towns, no man of moderate defi:es feels anxious about a family. In the country, where the mafs of the people dwell, every man feels the increafe of his family to be the increafe of his riches; and no farmer doubts about the facility
facility of providing for his children as comfortably as they have lived, where land is fo cheap and fo fertile, where fociety is fo mach on an equality, and where the prodigious increafe of population, from natural and accidental caufes, and the improving ftate of every part of the country, furninhes a market for whatever fuperfluo:'s produce he chufes to raife, withont prefenting inceffancly that temptation to artificial expenfe and extravagant competition fo common and fo ruincus in European countries.

In Great-Britain, perpetual exertion, incessant, unreremitting industry, daily deprivation of the comFORTS OF life, and anxious attention to minute frugality, are almoft incumbent on a man of moderate fortune, and in the middle clafs of life: and the probabilities of ultimate fuccefs are certainly againft a large family. In England, no man has a right, calcuiating upon the common chances, to expect that five or fix children ihail all fucceed, however virtuous or induftrions they may be.

In America it is otherwife; you may reafonably rickon upn- a comfortable fettlement, according to your fituation in lite, to : w part of a family, however numerous. There is nothins anropean countries equivalent to the taking off this weight :ppos the mind of a father of a family. It is felt in the occurreines of sucy day. Mr. Cooper remarks, he has feen with plealure the countenance of an European emigrant, in America, brighien up on this very comfortable reflection; a. reflection which confoies evein -ror lois of friends, and exile from a native country.

To perfons in genteel life, and of the clafs which we call men of fortune, nearly the fame difficulties occur: with us every rank treads fo clofe on the heels of the rank above it, that an exce/s of expenfe above income, is general; and perhaps the difficulties of a family aie ftill greater in the clafs laft mentioned. Temptations to unnecelfary expenie, owing to the numerous gradations of rank in England, are perpetual, and almont unconquerable: With the Americans, man is. more equitably appreciated; he is eftimated more at what he is, and lefs. at what he feems. Something like European manners, and fomething of the ill effect of inequality of riches, may indeed be found in the great towns of America, but nothing !ike what an inhabitant of the old country experiences; and the ma/s' of the people in America are nearly untanted. Hence the freedom from artificial poverty, and the univerfal diffuion of the common comrorts and conveniencies of life.

In England, if a man has been pecuniarily unfortunate, the eage crowd prefs on and trample over him, and, once down, he is kept down. In America, a falle ftep is not irretrievable, there is room to get up again; and the lefs unfortunate fumbler looks round at leifure, and without difmay, for fome more profitable path to be puriued. In England, every employment is full, we are preffed and elbowed on all fides: in America, every employment has room for induftry, and for many years almoft every fpecies of induftry muft be fuccersful. In fine, America is a rifing country, but there is caufe to fear, that mofr of the European countries are going faft to ruin and decay.

In America, the expenfes of the government are very much lefs, in proportion to wealth and numbers, than thofe of any nation in Europe.

There is no land tax among the national revenues, nor is there any interior tax, or excife upon food, drink, fuel, lights, or any native or foreign manufacture, or native or foreign production, except a duty of about four pence fterling upon domeftic diftilled fpirits. The greateft part of the public burdens are paid by an import duty on foreign goods, which being drawn back on exportation, it remains only on what is actually ufed, and is in that view the loweft in the world. In England, there is fcarce an article that an individual can eat, drink or wear, but what is taxed double, treble, and fometimes more than what was its criginal intrinfic value.

Trade has been encouraged by a drawback of all the import duty on foreign goods, when they are exported, excepting only a very few commodities of a particular nature, which are not defired to be much imported into, or confumed in, the United States.

A national mint is eftabiifhed under the direction of the ableit practical man in the arts and fciences which America affords, DAvid Rittenhouse. It is provided by law, that the purity and intrinfic value of the filver coins flall be equal to that of Spain, and of the gold coins to thofe of the fricteft European nations. The government of the United States foregoes all profit from the coinage; this is certainly an honeft, a politic and wholefome forbearance, but America is the firft that has adopted it.

The banks eftablified in the feveral cities of Philadelphia, NewYork, Bofton, Baltimore, Charlefton, Alexandria, \&c. divide a profit \&f feven and a half to eight and a half per cent. per annum * at pre-

[^35]feit, which is paid half-yearly. The intereft of the public debt of. the United States is paid every quarter of a year with a punctuality abfolute and perfé $£$. There is no tax on property in the funds and banks.

The fhip-building of the United States has been on the increafe ever fince the revolution; it was greater in the year 1793 than in any former year fince the fettlement of the country, and it is greater in the current year than it was in the laft. Generally fpeaking, the art of chip-building was never fo well underftood, never fo well exesuted, nor was there ever a time when fo many of the manufaczures requifite for the furniture, tackle, apparel, and arming of veffels; were made in the United States.

The value of the manufactures of the United Siates is certainl\$ greater than double the value of their exports in native commodities, and much greater than the grofs value of all their imports, including she value of goods exported again.

Thefe manufactures confift generally of articles of comfort, utility and neceffity. Articles of luxury, elegance and fhew, are not manufactured in America, excepting a few kinds. Manufaĉtures is general have increafed very rapidly fince the commencement of the sevolution war, and particularly in the laft five years.*

The exports of the United Staies have increafed ia the laft three years from fourteen to twenty per cent. $\dot{\dagger}$ Thefe experts confift, in a great degree, of the moft neceffary food of man, of working dnimals, and of raw materials, applicable to manufactures of the mug general utility and confumption. ll

The exports of the United States are fix times the amount of the national taxes and duties; and the amount of the outward freight of the flips and veffels of the United States, at this time, is probably

* Houmold manufactures are carried on within the families of aimoft all the farsoers and planters, and of a great proportion of the inhabitants of the villages and towns. This practice is increafing under the animating influences of private iatereft and public fpiric.
+ In the three jars ending Sept. $30,1 \% 93$, they increafed from eighteen millions and one quater to twenty-fix millions of dollars.
\|f There is not any duty upon the exportation of the produce of the earth, nor can fuch duty be impofed on any exported commodities, but the exportation of produce masy be fufpended or prohibited in cales of necefity or poizcy.

Produce and all other merchanaife may be freely exported in the fhips and velfels of all nations, not beieg alien enemies, without difcrimination;

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 a much lefs proportion than heretofore, owing to the fame two caufes.The imports of the United States have almoft ceafed to exhibit certain articles of naval and military fupply, and others of the greateft utility and confumption, owing alfo to ibe fame two cauffes.

Their imports confift but in a fmall degree of neceffaries, in a . great degree of articles of comfortable accommodations, and in fome degree of luxuries; but their exports confift chiefly of prime neceffaries, of the utmont importance to Europeans, with fome articies of mere comfort and utility, and fome of luxury. The following will be found to be the quantities of fome of the principal articles of exportation from the United States, during the year encing in Scptember, $1792^{\circ}$.

[^36]$3,145,255$ Bufhels of grain and pulfe, principally wheat, Indian corn, rye, beans and peas.
44,752 Horfes, horned cattle, mules, hogs and heep.
i, 469,723 Barrels of flour, meal, bifcuit and rice, reducing calks of various fizes to the propartion of flour barrels.
146,909 Barrels of tar, Fitch; turpentine and rofin.
1 16,803 Barrels of beef, pork, mutton, faufages, oyfters, tripe, \&cc. reducing calks of various fizes, to the proportion of beef and pork barrels.
231,776 Barrels of dried and pickled fifh, reducing them to barrels of the fame fize.
948,1 15 Gallons of fpirits, difilled in the United States.
7,823 Tons, 12 cwts. and 14 lb . of pot and pearl afhes.
112,428 Hogitheads of tobacco.
60,646,86i Feet of boards, plank and fcantling.
19,391 $\frac{1}{2}$ Tons of timber.
18,374 Pieces of timber.
r,080 Cedar and oak fhip knees.
71,693,863 Shingles.
$3^{1,7}, 70,702$ Staves and hoops.
I91 Frames of houfes.
73.318 Oars, rafters for oars, and hand-fpikes.

48,860 Shook or knock-down cafks.
52,381 Hoghheads of flax feed.
The exports of the year of which the above are a part, amounted to twenty-ore millions of dollars; but the exports of the next following year, ending on September 30, 1793, amounted to five milllions more, being twenty-fix millions of dollars. Provifions and raw materials have greatly increafed. Of flour alone there were thipped one million and thirteen thoufand of calks.
The imports of the United States are now generally brought direetly, and not circuifouily, from the countries which produced or manufactured them. China, India Proper, the ifles of Bourbon and Mauritius, Good Hope, the fouthern fettlements of America and the Weft-Indies, the Wine iflands, and the couintries on the Mediterranean and Baltie feas; Great-Britain and Ireland; France, the Netherlands and Gertiany, Spain and Portugal.
Thus their commerce is diverfified and profperous, and confifts in importing for their own confumption, and for exportation, in the exporting, the coafting and ipland trades, the İdian trade, manufac-
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turcs,
tures, fhipping, the fifheries, banking; and infurances on thips cargoes, and houfes. There is no branch of commerce, foreign or domeftic, in which every diftrict, city, port and individual is not equally entitled to be interefted.*

The commanders and other officers of American fhips are deemed frilful and judicious; from which caufe, combined with the goodnefs of their fhips and of their equipment, infurances upon their veffels are generally made in Europe, upon the moft favourable terms, compared with the correfponding rifques on board of the veffels of other nations.

The lawful intereft of money is fix per cent. per annum, in moft of the States; in a few it is feven per cent. $;$ in one it is five per cent.

The poor taxes in the United States are very fmall, owing to the facility with which every man and woman, and every child, who is old enough to do the lighteft work, can procure a comfortable fubfiftence. The induftrious poor, if frugal and fober, often place themfelves in a few years above want.

Horfes and cattle, and other ufeful beaits, imported for breeding, are exempted by law from the import duity.

The clothes, books, houihold furniture, and the tools or implements of their trade or profefion, brought by emigrators to America, are exempted from the import duty, and they may begin their commerce, manufactures, trades or agriculture, on the day of their arrival, upon the fame footing as a native citizen; and there is no greater nor other tax upon foreigners or their property in the United . States, than upon native citizens.

Almoft every known Chriftian church exifts in the United States; as alfo the Hebrew church. There has not been a difpute between any two fects or churches fince the revolution. There are no tythes; marriage and burial fees, glebes, land rents, pew rents, monies at intereft and voluntary contributions, are the principal means of fupporting the clergy. Many of them are alfo profeffors and teachers in

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the univerfities, colleges, academies and fchools, for which interefting ftations, pious and learned minifters of religion are deemed peculiarly fuitable. There is no provifion in the Epifcopal, Prefbyterian, or Independent church for any clerical perfon or character above a rector or minifter of the gofpel; and this is generally, if not univerfally the cafe. There are fome affitant minifters, but no curates or vicars.

All the lands in the United States are free from tythes, and the medium purchafe is not equal to the annual land rents of Europe; even including in the eftimate the value of the old improved farms in America, and the great mals of unimprored lands.

The productions and manufactures of,military fupplies and articles enable the United States to derive from their own refources, fhips of war, gunpowder, cannon and mukket balls, fhells and bombs, cannon âd carriages, rifles and cutlaffes, grapnals, iron, lead, cartouch boxes, fword belts, cartridge paper, faddles, bridles, and holiters, foldiers' and failors' hats, buckles, fhoes, and boots, leathern breeches, naval ftores, fheathing paper, malt and firituous liquors, manufactured tobacco, foap, candles, lard, butter, beef, pork, bacon, hams, peas, bifcuit, and flour, and other articles for the land or marine fervice.

The education of youth has engaged a great fhare of the attention of the" leginlature of the States. Night fehools for young men and boys, who are employed at labour or bufinefs in the day-time, , have been long and beneficially fupported, and the idea of Sunday fchools has been zealoufly adopted in fome plazes. Free fchools for both fexes have beeis increafed, and greater attention than heretofore is paid to female education.

The people of the United States are ingenious in the invention, and prompt and accurate in the execution of mechanifm: and workmanfhip, for purpofes in fcience, arts, manufactures, navigation, -and agriculture. Rittenhoufe's planetarium, Franklin's electrical conductor, Godfrey's quadrant improved by Hadley, Rumfey's and Fitch's fteam engines, Leflie's rod penduium, and other horological mentions, the conftruction of fhips, the New-England whale-boat, the conftruction of flour-mills, the wire-cutter and bender for cardmakers, Folfom's and Briggs's machinery for cutting nails out of rolled iron, the Philadelphia dray with an inclined plane, Mafon's engine for extinguifhing fire; the Connecticut fteeple clock, which is

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wound up by the wind; the Franklin fire place, the Rittenhoure ftove, Anderfon's threfhing machine, Rittenhoufe's inffrument for taking levels, D̈onnaldfon's Hippopotomas and balance lock, 'are a few of the numerous examples.

There is no defcription of men in America, and there are very few individuals in the active time of life, who live without fome purfuit of bufinefs, profeffion, occupation, or trade. All the citizens are in active habits, and all capital tock is kept in action.*

No country of the fame wealth, intelligence, and civilization, has fo few menial fervants, frictly fpeaking, in the families of perfons of the greateff property. Family fervants and farming fervants, who emigrate from Europe, and who continue foberly and induftrioully in family or farm fervice, for one, two, or three years, commonly find opportunities to better their fituations, by getting into fome comfortable line of dealing, or trade, or manufacturing, or farming, according to their education, knowledge and qualifications.

Ämerica has not, indeed, many charms for the diffipated and voluptuous part of mankind, but very many, indeed, for the rational, fober-minded and difcreet. It is a country which affords oreat opportunities of comfort and profperity to people of good property, and thofe of moderate property, and to the induftrious and honeft poor: a fingular and pleafing proof of which laft affertion is, that there are very few, if any day labourers in the city and liberties of Philadelphia, of the Quaker church. That religious fociety is very nu:merous; but the fobriety, induftry, and frugality which they practife, enables their poor quickly to improve their condition, in a country fo favourable to the pooreft members of the community.

That part of the tradefmen and manufacturers who live in the country, generally refide on fmall lots and farms, of from one acre to twenty, and not a few upon farms of twenty to one hundred and fifty acres, which they cultivate at leifure times with their own hands, their wives, children, fervants, and apprentices, and fometimes by hired labourers, or by letting out fields for a part of the produce to fome neighbour, who has time or farm hands not fully employed. This union of manufactures and farming is found to be very conve-

[^38]nient on the grain farms, but it is fill more convenient on the grazing and grafs farms, where parts of almoft every day, aod a great part of every year, can be fpared from the bufinefs of the farm, and employed in fome mechanical, handycraft, or manufacturing bufinefs. Thefe perfons often make domeftic and farming carriages, implements, and utenfils, build houfes and bàrns, tan leather, manufacture hats, fhoes, hofiery, cabinet work, and other articles of cloathing and furniture, to the great convenience and advantage of the neighbourhood. In like manner fome of the farmers at leifure times and proper feafons, manufacture nails, pot afh, pearl afh, ftaves and heading, hoops and hand fpikes, axe handles, maple fugar, \&c. The moft judicious planters in the fouthern States are induffriounly inftructing their negroes, particularly the young, the old, the infirm, and the females, in manufactures.

A large proportion of the moft fuccefsful manufacturers in the United States are perfons who were journeymen, and in fome inftances foremen in the workflops and manufactories of Europe, who having been fkilful, fober, and frugal, and having thus faved a little money, have fet up for themfelves with great advantage in America, and few have failed to fucceed.

From this brief fketch we may juflly draw this conclufion, that the adyantages America offers to European emigrants are fuch as no country befide can hold forth.

## ON THE,CHOICE OF RESIDENCE.

Suppofing an individual from political fentiments or other circsmftances, to have formed a refolution of taking up his refidence in the United States, a queftion will naturally arife, what part of America is heft adapted to his purpofe? The anfwer to this queftion will certainly depend much or the difpofition, circumftances, and purfuits of the perfon himfelf. Some few circumftances may, however, influence nearly the whole clars of Englifh emigrants.

Quitting a country where the church is forced into an unnatural connection with the flate, and where religious opinions are the fubject of popular obloquy, and civil difqualifications ; fuch will feek in America an afylum from civil perfecution and religious intole-rance---fome fot where they will fuffer no defalcation in political rights, on account of theological opinions, and where they may be permitted to ènjoy a perfect freedom of /peecb as well as of fentiment,
on the two moft important fubjects of human inquiry, religion and politics.

As the people of England have oppofed the fyftem of negroe flavery, the moft part will hare very ftrong, if not infuperable objections, to thole parts of the continent where flaves are the only fervants to be procured, and where the practice of the country tends to fupport this humiliating diftinction between man and man. But as labourers in hufbandry, as well as for domeftic purpofes, will be neceffary, fome fituation muft be chofen where fervants may be procured with tolesable facility, although flavery do not prevail.

As the period of civil commotion and internal warfare, feems in the opinion of moft perfons, not far diftant in almoft every part of Europe, fuch would wifl, we fuppofe, to fix in a place where they are likely to enjoy the bleffings of peace, without the hazard of interruption from any circumitances at prefent to be forefeen. Dreading the prorpect, however diftant, of turbulence and bloodfhed in the old country, they will hardly expofe themfelves unneceffarily to fimilar dangers in the new; they will therefore not direct their courfe toward thofe parts of the continent, where the prefent enmity or uncertain friendfhip of the American Indians will render peace, property, and perfonal fecurity in any great degree dubious.

If their fortune is not large, fuch will think it an object to confider in what way they can improve it; where and how they can live moft comfortably upon fmall property and moderate induftry. If, indeed, a number of people perfonally, or by reputation, acquainted with each other, with fimilar habits of life, and general purfuits, were to quit England together, they would naturally endeavour to pitch upon a fettlement where they need not be fo divided as to renounce the fo'ciety they had been accuftomed to enjoy ; or to accommodate themfelves fuddenly to a change of habits, manners, friends, and affuciates. With many of them in middle life, or advanced in years, this would be a circumftance of importance to their future comfort; and therefore no fituation for a number of perfons of this defcription conld be perfectly eligible, where this accommodation could not be procured. It would in fuch a cafe therefore be defirable to fix upon fome part of the continent where a large body of contiguous land could readily be procured at a reafonable price. We fay, at a reafonable price, becaufe the perfons who would be likely to quit England for America, muft, in our opinion, as one principal inducement ${ }_{2}$ have in view the more eafy improvement of a fmall fortune, and the
more eafy fettlement of a large family ; and it would therefore be expedient that fuch a fituation were chofen, and fuch a plan of fettiement adopred, as would hold out a reafonable expectation of a gra* dual increafe in the value of that property in which they flall be induced to inveft the wreck of their Britilh fortuncs. Perhaps the purchafe of land in fome of the American States is the moft fpeedy as well as the moft certain means of improving a prefent capital; efpe= cially to thofe who can give an immediate increafed value, by fettling as neighbours on their own contiguous farms. In this view, therefore, and for this purpofe, fuch foould endeavour to procure a large traet, and at a price not only reafonable, but fo low in the firft inftance as to admit of an early increafed value, by the means of a neighbourhood and improving refident propprietors. Were fuch a plan to take place, we have no hefitation in faying, that the perfons adopting it would fettle in America more comfortably to themfelves, and more beneficially to their intereft, than if they were to go out as infulated, unconnected individuals.

The next moft advifeable plan for an Englifhman would be, if he does not mean to follow trade, to go where land is cheap and fertile: where it is in a progrefs of improvement, and if poffible in the neighbourhood of a few Englifh, whofe fociety, even in America, is interefting to an Englifh fettler, who cannot entirely relinquifh the memoria temporis acti.

Nor is the article of climate unimportant. It will be wiflied, we conceive, that any fudden or violent change fhould, if poffible, be avoided, and cateris paribus, that a new-comer flould be expofed to no greater exceis of heat or cold, beyond what he has been accuftomed to bear, than the difference in point of natural fituation between the two countries muft inevitably produce. The United States contain fo many varieties of climate, that there is great room for choice in this refpect; but we think there will be little doubt with an Englinimas about the propriety of avoiding in this article the long winters of New-Hamp!hire and Maffachufetts, and the parching fummers of a part of Georgia and the Carolinas. A perfect fimilarity is neither neceffary nor poffible, and the human conftitution cafily and fpeedily adapts itfêlf to flight variations.

With thefe preliminary obfervations in view, let us exaraine the inducements which the refpective States of America prefent to a Britifh emigrant.

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The fouthern States of Georgia and North and South-Caroliniza feem at prefent quite out of the queftion, at leaft they are not fo convenient to an European, from the extreme heat of the climate, and the prevalence of the negroe flavery. The upper part of Georgia, and part of the Carolinas, may admit of exceptions ; many have emigrated there, and many continue to do fo with advantage to themfelves and families.
The long continued cold of New-Hamphire and Maffachufetts; including Vermont and the province of Maine, appears highly, though not perhaps equally objectionable. A man who has been uffed to a laborious active life, who is proud of independence, who withes to fluun the haunts of folly and vice, who would prefer living among a hardy race of independent farmers to the polifhed fociety of large cities, who wifhes for honeff hofpitality inftead of polifhed fycophancy, fuch a man will find in the New-England States an ample requital for a hard winter. To many, however, it will feem a moft unpleafant circumftance, that fo finall a portion of the year is afforded by nature to the farmer, wherein to provide fuftenance for the remaining part.
In the north-eaftern States, viz. New-Hamphire, Maffachufetts, Connecticut, \&c. property is much divided,* farms are fraall, and good land in general dear ; hence purchafes are not eafily made here, with the fame profpect of future increafe in value, which many of the other States afford. Add to this, that thefe paits of the American continent do themfelves furning yearly a very confiderable number of emigrants to the middle and weftern States; they are "fthe northern " hive" of this country. And the fane reafons that operate upon the gatives to emigrate from thence, will be reafosis alfo againft an emigration thicher.
The States of Rhode-Ifland, Jerfey, Delaware, New-York, Pennfylvania, Maryland and Virginia, with the fettlements on the wefterr waters, have all of them claims to confideration on the prefent occafion.

Rhode-Ifand in point of climate and productions, as well as in appearance, is perhaps the moft fimilar to Great-Rritain of any State in the Union. The winters are fomewhat longer and mère fevere, the fummers perbaps a little warmer; but it participates with GreatBrisain in fome meafure in the defects of climate, being from its fpeculation, though fingle farms at a rate comparatively moderate. might be procured here. This, however, is owing tó a decay of trade in this part of America, and to the inhabitants themfelves, quiting their fituations for the profpect of a more advantageous trade. It is rather adapted for à afazing than a corn country; feantily timbered, comparatively plentiful: in milk, butter, and cheefe; but not abounding in what the Americans term gcod or rich land. The divifion of property, however, and its prefent tendency rather to decreafe than increafe in value, renders it ineligible for new fetilers.
The climate of New-Jerfey, were there no other objections, is unpleafant to Europeans, particularly in the fummer feafon, from its eaftern fituation, the many fwamps it contains, and ithe quantity of fea coaft in proportion to its extent. Mufquetoes and agues are more troublefome in this than in many of the other northern or even middle States; and in the more cligible parts of New-Jerfey; property is too much divided, and toof dear to promife fuccefs to an eftablifhment, fuch as we have allùded to; many valuable purchafes may, however, be made in this State.
The fame remarks will in a great degree apply to the State of Delaware, to which alfo there is a farther objection arifing from the illiberality of the religious teft law, contained in its conftitution; not to mention the prefent prevalence of negroe flavery in that portion of the continent.
The State of New-York feems increafing as rapidly in every circumftance of profperity as any otber State in the Union, Pennfylvania excepted. The city of New-York ranks next to Philadelphia as a place of trade, and the back parts of the State afford, at no very dear price, immenfe tracts of the richeft land. Neither is the climate in general fo different from that of Great-Britain, as to conftitute any formidable objection to Britila fettlers. Its extremes of heat and cold are greater than in England, but in fome parts a little more warmth would be no difadrantage ${ }_{\text {. }}^{\text {相 }}$ for although the numerous tribes

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 Prospeets And ADVANTAGESof American apples are to be found here in great perfection, the peach, it is faid, does not perfectly ripen at Albany.
Beyond comparifon, the moft fertile part of this State is the Geneffee country; which, fince the prefent war with the Indians, has attracted a great number of the New-England emigrank, who a year or two ago were induced to travel to the weftern frontier of the Ohio, in fearch of cheaper and better land than could be found in their own country. Indeed, there does not appear to be much difference in the kind or quality of the foil, between the firft rate land of the Geneffee and the Kentucky territory : whatever difference there is, may moft probably be attributed to the greater warmth of the climate in the laft mentioned part of America. If the mere circumftance of richnefs of foil therefore were to determine emigration, a New-England emigrant might reafonably ftop in the Geneffee country, without taking fo long a journey as many of his countrymen have heretofore done.

To this part of the State, however, rich and fertile as it is, there are ferious and formidable objections to many European fettlers. The difficulty of procuring fervants in huibandry, or, indeed, of any other kind, is very great : for as the land is but lately begun to be fettled, the inhabitants, therefore, confift at prefent almoft Wholly of the clafs of firt fettlers, who depend chiefly on the labour of themenfes and their families for fupport; thefe, therefore, will be the only clafs of European fettlers, labourers excepted, whom this part of the States would fuit, and perhaps few parts are better adapted to a man whofe family and connections would manage from one to five hundred acres of land. The fuperfluous produce of the Geneffee lands will be fent either to Philadelphia or New-York, by the way of Albany. The conveyance will be troublefone and expenfive to beth places. That part of the Geneffee which is neareft to the Sufquehannah and the Delaware, will find vent for its produce at Philadelphia. This city will alfo attract the produce of a great part of the Geneffee country, which from mere fituation would feem more in the vicinity of New-York market, in confequence of the greater exertions making by the State of Penfylvania to facilitate the carriage of commodities by means of new roads and canals, and the improvement of river navigation. It is evident from hence, as indeed it is from a fimple infpection of the map, that the interior parts of Pennfylvania, in the vicinity of the Sufquehannah, where the land for the moft part is extremely fine, have very confiderable advantages over
the moft advantageous part of the Geneffee tract, in the facility of tranfporting produce to market ; the produce of the interior of Pennfylvania will therefore in all probability come firf and cheapeft to market. The prefent price of lands in the Geneffee is nearly the fame as in the rich parts of Peninflvenia, a hundred and fifty miles nearer to Philadelphia.

- It is another unpleafant circumflance attending the Geneffen country, that it forms the frontier to the Indians, who navigate the lakes along the whole tract : indeed many tracts in the Geneffee ter: ritory ittelf are referved by the Indians. At prefent they are friendty, nor is there much fear of a change; and Jhould they be come otherwife, they will be ultimately fubdued: bitt the fate of ine termediate conteft on fuch an occafion would ill fuit the habits and inclinations of a peaceable European. Along the Mohawt river, the lands are rich and heavily timbered, and fell at prefent at a price not fuperior to the comparative advantages they prefent; but they arte liable to many of the objections which may be made to the Geneffes country.
It feems evident from thefe circumflances, that this country, which in other refpeets is the moft eligible part of New-York State for many purpofes of a new fettler, has numerons difadvantages attending it 3 difadvantages which an American emigrant, from the thick fettled flates of New-England, would regard as trifing, but which, we coor ceive, will appear in a more formidable light to Europeans.
Very few objections can be made to the State of Pennfylvania. In point of climate, the difference between this part of the American continent and Great-Britain is not only very fupportable, but perhaps in favour of the former, even to Britifh feelings, efpecially in the northern and north-weftern parts of the State. The fummers are fomewhat warmer and the winters colder than at London, but the general fate of the air is more dry, more pleafanf, and perhaps equally, if not more healthy. The central fituation of this State with refpect to the others, the profperous fate of its treafiry, the numerous projefted improvements in roads and canals, the poffeffion of the largeft and moft flourifhing city of America, and the fuperior proportion not only of imports and exports, but particularly of emigrants of every clafs that come to the port of Phinadelphia, altogether make it probable, that Pennfylvania may fairly be regarded as the moft flourifhing State of the Union.

In a general view, Pennfylvania is preferable to New-York, becaufe the climate is more dry, ${ }^{*}$ and therefore more favourable to health, fomewhiat warmer, and therefore more favourable to vegetation in the former than in the latter State. In Pennfylvania, the go vernment is more intent upon thofe public improvements that will force population and the fpeedy rife of lands, its revenues are more pröduéive, and it̂̀s treafury richer. In all other circumftances, PennFylvania is at leaft equal to New-York, and in thofe enumerated, it has undoubtedfy the preference. But we are not to feek in the foutheafternline of this State, either for large tracts of good or cheap land. As you approach the coaft, property is divided, the land is barren, and the prices high. Neither is the climate in the fouth-eaftern line of Pennifylvania for two hundred or two hundred and fifty miles; from the fea, fo pleafant or fo favourable to health or to vegetation as in' the more northern and north-weftern parts of the State. Thus, in Philadelphia, during the two laft winters, the fnows repeatedly appeared and difappeared; frofts fucceeded to thaws, and the roots of the grain were left expofed to the feverity of the cold. This inconvenience is more frequently experienced by the farmer in the part of Pennfylvania approaching to Maryland, and often proves a very ferious inconvenience. While in the northern parts of Northumberland, Luzerne, and Northampton counties, the fnow, when it once falls in a quantity, generally remains through the winter, producing more fettled weather, and protecting the crops underneath.

Moreover, the largeft unoccupied tracts of land, of courfe the cheapeff, and beyond comparifon the richeft lands in this State, are to be found in the northern parts of the couaties juff mentioned, and of Allegany county; that is, generally fpeaking, north of latitude $41^{\circ}$.

With refpect to-Maryland and Virginia, objections may be made relative to flave-labour in particular. Thefe States are likewife unpleafantly warm in the fummer feafon to an Englifh conftitution, particularly the former; the impoffibility of procuringany fervants but negroe flaves, is an objection almoft infuperable to a generous mind. Add to this, that Philadelphia is at prefent a bettermarket for produce than Baltimore, particularly for wheat, whick uffually fells a

[^40]hilling higher at Philadelphia than at the port juft mentioned, which however is in a very rapid ftate of improvement.

The federal city, recently laid out between the forks of the Potomack, will, however, give a confiderable increafed and increafing value to the country round it; and the future refidence of Congrefs there, will, in time, make Wafhington city what Newryork and Philadelphìa are now, although the ports of Alexandria, Baltimore, and Annapolis will long be competitors of great importance. There can be no doubt but perfons may find and fettle upon plantations in the neighbourhood of Wafhington city; fufficiently extenfive to occupy a moderate capital, and to which there will be a yearly acceffion of value, independent of their own exertions, whatever the prefent price of the fands may be. But ftill, the evil confeqnences of flave-labour at prefent remain; and whether it be owing to one, or to both of thefe caufes combined, there certainly is a want of individual and national energy, in feveral of the fouthern States; which we do not find in the others the file of farming is more flovenly, the individuals are more idle and diffipated, and the progrefs of public improvements in general more flow than in the States on the northern fide. There can be no doubt but the climate contributes fomething to this indolence of difpofition; but where labour is confined to llaves; who do not benefit in proportion to their induftry, and where the white inhabitant regards himfelf as a different and fuperior being, the general ftate of improvement muft be affected by fuch opinions adopted in theory, and parfued in practice.

Hence, whatever may be the cafe as to particular fpots, the gradual acceffion of value to landed property, from the operation of conftant and regular caufes, neither is, nor can be fo great in countries of this defcription, as in others where the climate admits and requires exertion, and where it is thought no difgrace for a white man to labour.
It is prefumed that the gradual acceffion of value to landed property, of which we have juft foken, will accrue more certamly, more feedily, and to a larger amount in the States of Pennfylvania, New-York; and Kentucky, than in either of the remaining. States, on account of the prefent cheapnefs of good land, and on account of the great refort of European emigrants.

Good lands can be procured in New-York or Pennfylvania, in favourable fituations, at from three half crowns to half av guinea an acre, and a capital employed in the purchafe of fuch lands wili mach
fooner be doubled, than if the original price had been two or three pounds fterling per acre. An acceffion of three half crowns per acre, additional value to the former defcription, will produce a duplication of the capital employed; while an additional value of three half-crowns per acre to lands of the latter defcription, will produce about fiffeen or fixteen per cent only. Moreover, five millings or feven flillings and fix-pence additional value is much more eafily given to land of the firit kind, and when given is more vifible, more evident at firft fight, than in the other cafe: and farther, land of this defcription muft neceffarily easice perfons of fmall property, and derive confequent value from new fettlers, even though value frould not be given, by the gradual popalation of the country itfelf. It is clear alfo, that other caufes muft give a great advantage to the middle States, and render them for fome years eligible fituations for the employment of time and trouble, as well as capital. Of the two, perbaps, the preference flould be given to Pennfylvania, for the reafons already mentioned; and alfo, becaufe the current of improvement is begond comparifon more rapid in this than in New-York State; but in both thefe States, emigrants eafily find plenty of land, rich, chaap, well watered, within the reach of navigation, under a good govermment and in a favourable climate.

With refpect to Kentucky, in point of foil and climate, it certainly has the preference to any State in the Union. Nature has given to the regions of this fair country a fertility fo aftonifming, that to believe it ; ocular demonfration becomes neceffary. To this advantage we may add; that of the number of European fettlers that have emigrated, and which continue to emigrate thither, and the coniequent rapid frate of improvement that has followed. Lands in and near the towns in this State muft continue to increafe in their value, and many purebares may now be made in the new townihips with very great advantage to a fettler; fome difficulties there undoubtedly are, and fuch muft naturally be expected in a newly-fertled country.

Lsbourers are fcarce, few if any can be hired but flaves, who are let out by their owners. But a great portion of the prefent inhabitants, Fike thoife of the Geneffee country in New-York; cultivate the greater part of their ewn lands, and live on the produce: this muft be the cafe with thofe that will not have any thing to do with naves; but this difficulty is not peculiar to Kentucky, it is common to. all newly-fettled countries. Another difficulty an European has to encounter in fetting in Kentucky, is the great diftance he has to
travel after landing in America; but this will operate as a difficulty only to fome individuals. The man whofe mind has gained ftrength Gufficient to bid farewel to European luxuries, or who has been habituated to a life fecluded from capital towns, will find little difficulty in this journey.

The routes from the different Atlantic States to this country are various, as may be fuppofed. From the northern States it is through the epper parts of Pennfylvania to Pirtßurgh, and then down the river Ohio. The diffance from Philadelphia to Pittfburgh is nearly three hundred miles; from Lancafter about two hundred and thirty. The route through Redfone and by Pittfburgh, both from Maryland and Virginia, is the molt eligible, provided much baggage is carried, except going from the fouthern and back counties of Virginia; then the beft and moft expeditious way is through the wildernefs. . Erom Baltimore, paffing Old Town upon the Potomack, and by Cumberland fort; Braddock's road, to Redifone Old Fork on the Monongehala, is about two hundred and forty miles; and From Alexandria to the fame place, by Winchefter Old Town, and then the fame route acrofs the mountain, is about two hundred and twenty miles. This laft muft be the moft eligible for all Europeanis who may wifh to travel to this country, as the diftance by land is fhorter, the roads better, and the accommodations good; i. e. they are very good to Old Town, which is one hundred and forty miles from Alexandria, and from thence to Redfone comfortable, and plentifully fupplied with provifions of all forts : the road over the mountain is rather rough, but no where, in the leaft difficult to pafs.

Travellers or emigrants take different methods of tranfporting their baggage, goods or furniture, from the places they may be at so the Ohio, according to circumftances, or their object in coming to the country. If a man is travelling only for curiofity, or has no family or goods to remove, his beft way will be to purchafe horfes, and take his route through the wildernefs; but provided he has a family, of goods of any fort to remove, his beft way, then, will be to purchafe a waggon and team of horfes to carry his property to Redfone Qld Fort, or to Pittfburgh, according as he may come from the northern or fouthern States. A good waggon will coft, at Philadelphia, about ten pounds, reckoning every thing in ferling money for greater convenience, and the horfes about twelve-pound each; they will coft fomething more both at Baltimore and at Alexaadria.

The waggon may be covered with canvas, and; if the choice of tie
per people, they may fleep in it at nights witly the greateft fafety. But if this mode fhould be dilliked, there are inns of accommodation the whole diftance on the different roads. To allow the horfes a plenty of hay and corn will coft about one thilling per diem each horfe, fuppofing forage to be purchafed in the moft economical manner, i.e. of the farmers, from time to time as wanted, and not of inn-keepers, who muft have their profits. The provifions for the family may be purchafed in the fame manner; and by having two or three cainp kettles, and ftopping every evening when the weather is fine upon the brink of fome rivulet, and kindling a fire, food may be foon dreffed. There is no impediment to thefe kind of things, it is common, and may be done with the greateft fecurity; and perfons who wifh to avoid expenfe, as much as poffible, will adopt this plan. True, the charges at inas on thofe roads are remarkably reafonable, and the accommodations very good; but we have mentioned thofe particulars, as there are many unfortunate. people who emigrate from Europe, to whom the faving of every fhilling is an object; and this manner of journeying is fo farffrom being difagreeable, that in a fine feafon it is extremely pleafant, To perfons who have always been refident in a town, and enjoyed uninterruptedly the luxuries of life, it may appear ftrange and novel, but to perfons habituated to a country life, even in England, there will not appear any thing hard or degrading.

Provifions in thofe comntries through which you travel are very. cheap; beef, mutton and pork, are fomething lefs than two pence per pound; dunghill fowls are from four pence to fix pence each; ducks eight pence; geefe and turkies one fhilling and three pence; butter three pence per pound; cheefe there is very little good until you arrive in Kentucky; flour is about trelve fhillings and fix pence. per hundred weight.

The beft way is to carry tea and coffee from therplace they may fet out at, if it is wifhed for; good green tea there will ber from four flillings and Gix-pence to fix fhillings per pound; four. chong from three fhillings to five fhillings; coffee will colfthom one: frilling and three-pence to one fhilling and fix-pence per libsidaf fugar from feven-pence halfpenny to ten-pence halfpenny. Butht is needlefs carrying much fugar, for as the back country is approached, the maple fagar is.in abundaace, and may be bought from three.
pence to fixpence per pound. Such are the expenfis to be incurred in travelling to this country by Redfone and $\mathcal{Y} t \mathrm{tfbu}$ gh.

The diftance which one of thofe waggons may travel one day with another is little flort of twenty milcs; fo that it will be a journey from Alexandria to Redftone Old Fort of eleren or twelve days, from Baltimore a day or two longer, and from Fhiladelphia to Pitif-* burgh, we fhould fuppore it would require nearly twenty days, as the roads are rot fo good as from the two former places.

From thefe prices, the expenfe of removing a family from either of the fea ports to the Chio may be computed with tolerable exactneís.

The beft time for fetting out for this country from any of the Atlantic ports. is the latter end of either September or April. The autumn is perhaps the moit eligible of the two ; as it is probable, that the roads acrofs the mountain will be drier, and provifions and forage more plentiful and cheap than in the fpring.

If this mode fhould not fuit the convenience of the party, by reafon of their not wanting a wagyon or hories when they arrive in this country, they may have their goods carried out to Reditone Old Fort from Alexandria for twelve fhilinss per hundred weight, and in like proportion from Baltimore and Philadelphia.

At Redftone Old Fort; or Pittfburgh, they can eiti!er buy a boat, which will coft them about five fhillings per ton, or freight their goods to Kentucky for about one fhilling per hundred weight: There is no regular bufinefs of this fort; but as there are always boats coming down the river, one fhilling per hundred weight is the common charge for freight. But more frequentiy, when there is boat room to fpare, it is given to fuch as are not able to purchafe a boat, or have not a knowledge of the navigation. However, that is a bufinefs which requires no fkill , and there are always numbers of people coming down, whe will readily conduct a boat for the fake of a paffage.

The diftance from Philadelphia * by land to Kéntucky is between feven, and eight hundred miles; from Baltimore nearly feven hun-
is The diffances in the fettled parts oniy can be computed with any degree of ex-. actitude; but from the beft information that can te coliected, from the rapids of the Ohio to Santa Fé is about one thoufand miles, and from thence to the city of Mexico about one thoufand five hundred.

The computed diftance between New-Orleans and Mexico is fomething fhort of two thoufand miles, and about the fame to Santa Fé.

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dred; nearly $\mathfrak{G x}$ hundred from Alexandria; and upwards of five hundred $\mathrm{f}_{\mathrm{r}}$ om Richmond. The roads and accommodations are tolerably good to the borders of the wildernefs; through which it is hardly poffible for a carriage to pafs, great part of the way being over high and fteep hills, upon the banks of the rivers and along defiles, which in fome places feem to threaten you at every ftep with danger.* This is the only route the people coming from the upper parts of Virginia and North-Carolina can take at prefent to get into the country, the gap of Cumberland mountain being the only place it can be paffed without the greateft difficulty. The opening of the Tenneffee will afford a convenient communication with the Miffiffippi. The wildernefs, which was formerly two hundred miles through, without a fingle habitation, is reduced from the fettlement of Powel's valley to nearly one-half of that diftance; and it is to be expected, that in a few years more, the remainder of the dif. tance will afford fettlements for the accommodation of people travelling that route, when a good road may be made quite to Ken-- tucky. The canals which are cutting on the Potomack, and the removal of the obftructions in Cheat river, will render the paffage from Alexandria, or the federal city, to the Ohio, both cheap and eafy.

Upon the arrival of emigrants in the country, they generally take a view of that part in which it is their object to fettle, and according to their circumftances or calling, fix upon fuch a fituation as may appear eligible for their bufinefs. But as the greater proportion of the emigrants who fettle in Kentucky are hufbandmen, we fhall only take notice of their manner of proceeding and fettling a farm. Land is to be purchafed in every part of the country: the prices are various according to the improvements there may be upon it, its quality and local fituation; the general price of land, with fome improvements, in the neighbourhood of villages, from twelve to fifteen fhillings per acre. Plantations, with orchards and other improvements, may be purchafed from twenty to twenty-five fillings per acre; good land, without improvements, may be purchafed from one fhilling and fix-pence to eight flillings per ditto, which price will be according to its rate or quality and fituation.

We have noticed only what may be termed fettled country; we apprehend no European will be hardy enough to form a fettlement

[^41]in a wildernefs; this will be left for the Americans, who, no doubf, from habit, are beft qualified for that fort of bufinefs. Indeed, there are a number of people who have fo long been in the cuftom of removing farther and farther back as the country becomes fettled; for the fake of hunting, and what they call range for their cattle; which is that of feeding upon the natural grafs, that they feem unqualified for any other kind of life. This is favourable to the fettling a wild and infant country; and no doubt this difpofition will laft, with fome, as long as there is left a wildernefs in America. It is however certain, that this is advantageous to fociety, which will be bettered and not hindered by fuch peculiar habits, fo long as they have new countries to people ; for this adventurous fpirit tends to accelerate the propagation of domeftic animals of every fort.

Perfons of moderate fortune, upon taking poffeffion of the land they intend to form into a plantation, will, doubtlefs, procure fuch a fock as their circumftances will admit, and the extent of theiripobject requires; but let us fuppofe an induftrious man already provided with the neceffary tools for his agricultural employment, and a little money to buy ftock. In fuch a fituation, after building a log-houfe, which will coft him little more than his labour,* he will procure fome dunghill fowls, a cow, and a breeding fow.

Thefe animals are very prolific in this climate and foil; and it is not a fanguine calculation to fuppofe the fow will have eight or ten pigs at each litter; by which means the family will have pork fufficient for the next year, and the year after they may barter bacon for beef and mutton, which we will conclude their circumftances have not permitted them as yet to purchafe, though both may be eafily procured at a moderate price. His labour will have provided hirn with corn before this time, and in the extenfion of his plantation, and the inereafe of his cow and hogs, his difficulties will be over. The increafing ratio of fock is prodigious, where provifion for them coffs fo little as it does here, and where the fertility of the foil is fo wonder-

[^42]ful, that it amply repays the labourer for his toil; if the large trees are not rery numerous, and a large proportion of them the fugar maple, which is very common, they are an advantage to the fetler ; it is very likely from imperfect cultivation, that the ground will yield from fify to fixty buthels of corn to the acre. The focond crop will be more ample; and as the fhade is removed by cutting the timber away, great part of the land will produce from feventy to one hundred bufhels of corn from an acre. This will enable the farmer who has but a fmall capital, to increafe his wealth in a moft rapid manner.* His cattle and hogs will find fufficient food in the woods, not only for them to fubfift upon, but to fatten them. His cows want no provender the greateit part of the year, except cane and wild clover ; but he may afford to feed them with corn the fecond year, if be finds it neceffary. His garden, with little attendance, will produce him all the culinary roots and vegetabies neceffary for his table; and the prolific increafe of his hogs and poultry will furnifh him without fear of injuring his fock, with a plenty of animal food; and in three or four years his ftock of cattle and fleeep will prove fufficient to fupply him with both beef and mutton, and he may continue his "plan at the fame time of increafing his fteck of thofe ufeful animals. By the fourth year, provided he is induftrious, he may have his plantation in fufficient good orler to build a better houfe, which he can do either of ftone, brick, or a framed wooden building, the principal articles of which will colt him littie more than the labour of himfelf and domeftics; and he may readily barter or fell fome part of the fuperfluous productions of his farm, which it will by this time afford, and procure fuch things as he may ftand in need of for the completion of his building. Apples, peaches, pears, \&c. \&c. he ought to plant when he finds a foil or eligibie fituation to place them in, as that will not hinder, or in any degree divert him from the object of his aggrandizement. A few years of induftry will now make him a man of property, and infure his comfort and independence for the remnant of his life, and lay a firm foundation for the future opulence of his family. We have taken no notice of the game he might kill, as it is more a facrifice of time to an induftrious man than any real advantage.

The beft proof of the truth of thefe remarks is the paft progrefs of the fettlement of this country, from dirty ftations or forts, and fmoaky huts, into fertile fields, blufhing orchards, pleafant gardens,

[^43]luxuriant fugar groves, neat and commodious houfes, rifing villages, and trading towns. Ten years have produced a difference in the population and comforts of this country, which to be pourtrayed in juft colours would appear marvellous. To have implicit faith or belief that fuch things have happened; it is firft neceffary to be a fpeciator of fuch events.

We have entered into thefe feveral minutix in order to afford as clear a view as potible to the incividual who wihnes to depend on the farm for his fupport, of what part of the continent he is molt likely to fucceed, agreeable to the plan he may chufe to mark out for himfelf; in doing this, we have aimed at but one object, viz. to convey information.

In thofe fituations far from towns and feaports, and which may be confidered as but one remove from the favage wiluernefs, the difficuities to an European fettler, no doubt, appear greater than they really are, and the contraft of the inbabitants with thofe of European States is greater ftill ; the American farmer has more fimplicity and ho-nefty-we more ant and chicanery-they have more of nature, and we more of the world. Nature, indeed, formed our features and intellects very much alike, but while we have metamorphofed the one, and contaminated the other, they have retained and pieferved the natural Symbols of beth.

While motives fuitable to the fituation of life direct the man who depends on the earth for fupport, what part of the Siates to fix his refidence in ; men who have to depend on their efforts in trade, or their exertions, in mechanics and manufactures, the fine arts, or what are termed in Europe the learned profeffors, muft be directed by different circumftances. The mechanic and manufacturer, whether he is by the advantage of property enabled to begin bufinefs as a mafter, or being deftitute of it, is neceffitated to labour as a journeyman, muft take up his refidence in large cities or towns. With him the progrefs of arts and manufactures, the ftate of fociety, the price of provifions, \&c. are the principal objects of inquiry. Lawyers and phylicians mult likewife make thefe the places of their refidence; for with refpect to the former, whether his line of bufinefs is that of a conveyancer, a notary, or folicitor, no place of any other defcription can find him employ, as his whole fupport muft be drawn from the commerce, or the vices and follies of mankind. With refpect to the later, diffipation alone, in a great meafure, renders them necer. fary. Philadelphia, New-York, Bofton, Baltimore, Charlefton,

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Georgia and fome other towns of note, will of courfe be trie only places to which emigrants of either of the above defcriptions will proceed. In thefe towns the flate of fociety is much the fame as in the large towns of Great-Britain, fuch as Birmingham, Briftol, Liverpool, Manchefter, \&c.
New-York, for inftance, is the perfect counterpart of Liverpool; the fituation of the docks, the form of frreets, the flate of the public buildings, the infide as well as the outfide of the houfes, the manners, the amufements, the mode of living among the expenfive part of the inhabitants, all thefe circumftances are as nearly alike in the towns. laft mentioned as poffible. In all the American towns above noticed, there are theatres and affemblies; they are, in flort, precifely what the larger and more opulent provincial towns of Great-Britain are. Hence alfo we may eafily conceive, that European comforts aiad conveniences are not fcarce. In fact, we may find in Philadelphia or New-York, every article of that defcription ufually kept in the flops. in the Englifh towns referred to, in equal plenty, tut not, indeed, equally cheap. To the price of all articles of luxurious furniture, pictures, pier glaffes, carpets, \&c. add one-third to the Englifh price, and you have the full American price. Houfe rent is alfo much the fame as in the places hitherto compared; if any thing, fomewhat dearer in America for houfes of the fame fize and convenience. The houfes in the one fet of towns as in the other, are built of brick and ftone. In the country, houfes of equal convenience are as cheap as in the country of Great-Britain.
Provifions, milk and butter excepted, at Philadelphia and fouthward, are a full third cheaper than in fimilar places of Great-Britain. Butter, in Bofton and New-York, is cheaper than in Philadelphia, where it is from eleven-pence, to one fhilling and three-pence per pound. Cheefe about the fame price as in England, but perhaps not fo good. Fireing in the great towns very dear, a chord of hiccory wood, eight feet by four feet, and four feet, felling in Philadelphia and New-York, in the winter, at feven dollars. In the country it would be about one dollar and a half.
In the fettled country, howerer, from fifteen to two hundred and fifty miles from the large towns, the frate of fociety, and the fyle of living, is preferable to the country life of Great-Eritain.

With refpect to the federal city, or, as it is called, the city of Wanh-
kind who fhould take up their refidence there for fome years to come, thofe in the building line and the manufacture of houfehold furniture excepted.

Having thus briefly attempted to point out the moft eligible fituation for European fettlers, it is neceffary to attend to another queftion which may naturally be afked; and to which we fhall aim to give as fatisfactory a reply as poffible.

## WHAT CLASS OF EUROPEAN CITIZENS WILL FIND IT THEIR INTEREST TO FIX THEIR RESIDENCE IN THE UNITED STATES?

One remark, by way of anfwer, may be confidered as general. America is not a place fuited for the idle, the profligate, the debauchee, nor the diffipated of any clafs; it is far from a congenial foil for what is termed in Europe a man of pleafure. Thefe poifonous and obnoxious animals in the form of man, will find but little encouragement in the United States; the minds of the federal Americans are not corrupted by European fyftems fufficiently to give a welcome to characters of this ftamp, but, on the contrary, they are held in the deteftation they merit. In America, the terms honour and pleafure have different meanings affixed to them than in England; a man can claim no honour from his birth or his riches in that country; integrity and ability are the only paths that can lead him to that goal. And with refpect to pleafures, the great "body of the Americans know of none, but what arife from the practice of virtue. Thus their pleafures frengthen the ties of fociety, and contrary to what are called by that name in England, add to the ftock of human happinefs, inftead of increafing its mifery and wretchednefs.

While characters of the above defcription will not find any advan-tage-in migrating to America, few virtuous and induftrious perfons will find themfelves difappointed in their expectations of at leaft a comfortable provifion in their own line of bufinefs, though in this refpect fome will have advantage over others.

Merchants, tradefmen, and fhopkeepers will find moft of the large towns in the different States eligible fituations; in general, they afford good water carriage for goods of all kinds, and are well fituated for an extenfive connection with the back countries. Men of this defcription, though it is not abfolutely neceffary, will yet find it their advantage to ferve a kind of local apprenticefhip, for whatever be the

If vious connections or circumftances which induce them to go thither, time is neceffary to acquire fufficient knowledge of the habits and manners of the people, of the characters and fituations of thofe with whom they are to deal, of the channels of commerce, the articles of barter, and the other details of bufinefs, which nothing but actual refidence and local inveftigation can fupply. With this, no perfon of good character and recommendation, with credit on the old country, can fail to fucceed in the new. Succefs, however, will be much accelerated by a knowledge of the German and French languages, in Yennfylvania and New-York States in particular. In Philadelphia every ftorekeeper has the name of his firm and trade written in Getman as well as Englifh.

Mafter workmen in every manufacturing and mechanical art, except thofe of fuperfluous or luxurious kinds, with/their journeymen and labourers, muft fucceed here. The freight, infurance, and other charges of a voyage of three thounand miles, and the daties Taid there, operate greatly in favour of American fabricst Manufactures by fire, water, and emigrating workmen, muft fucceed even in the moft agricultural of their States, and will meet with every encouragement in the New-England and-other States, whofe lands are nearly full. A regard for the republican manners of the country, and juftice to Europeans, render it a duty to warn the manufacturers of fuperflucus and luxurious articles, not to emigrate to the United States. Gold, filver, and other laces, embroidery, jewellery, rich filks and filk velvets, fine cambrics, fine lawns, fine mullins, and articles of that expenfive nature, have few wearers there, and thofe who do wear them, have a predilection in favour of European and other foreign articles.

There can be ne doubt of the fuccefs of a glafs manufactory, a gunpowder manufactory, a manufactory of all the heavy kinds of iron work, fuch as caftings from the ore, bar iron, pig iron, rolling mills; fitting mills, and the making of nails, and of every article in the flipping line : woollen, linen, except in the heavy and coarfe articles, and cotton manufactures, are perhaps dubious, owing to the want of hands, though the latter has been attended to with fuccefs. We believe that no foap boiler, hatter, gunimith, tallow chandler, whiteImith and blackfmith, brafs founder, wheelwright, cabinet maker, carpenter, mafon, bricklayer, taylor, hoemaker, cooper, tanner, currier, malufer, brewer, diftiller, failmaker, ropemaker, printer and bookbinder, whether mafter or journeyman, can mifs of em-

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Hojment there. Even filverfmiths and watchmakers will find the ftate of fociety not unfavourable to their trade. Of filverfmiths, mafters and journeymen, there are reckoned about four hundred in Philadelphia alone. It is impracticable to enumerate every trade; buit in general, without fear of erring, we may conclude, that all thofe of common ufe are now, and will long continue to be in demand there. The wages of journeymen are confiderably higher than in Europe, and the money of a working man will certainly go farther.

The profeffion of the law is not fo different in any of the States in America, from what it is in England, as not to afford a fair chance of fuccefs to any lawyer from the old country, who will fpend a couple of years in attaining the practice, and the knowledge peculiar to, and neceffary for the particular ftate in which he wifhes to act. The fees are much the fame as in England. The reports of cafes determined in England are authority, but not precedent. They have great weight, and are generally decifive, but they are open to obfervation, to animadverfion, and contradiction. The law, however, is a fafhionable, and therefore a full profeffion in America, and we doubt whether an Englifh lawyer will, in general, mend his pecuniary fituation by removing there; the lawyers of great practice, who all aft as attornies, get from five hundred to two thoufand pounds currency a year. We believe the profits of none exceed three thoufand pounds. German and French, if notabfolutely neceflary, are very convenient to an American lawyer.

The profeffion of phyfic is well filled in America, but there are many foreigners who practife: the profeffion we believe is open, but, unlefs in the cafe of a German or French practitioner among the inhabitants who fpeak Englifh imperfectly, the American phyficians have, and perhaps juftly, the preference. Surgeons are not fo experienced as in Europe, nor, indeed, do furgical cafes fo frequently occur. The poor are lefs expofed to accident and difeafe, and therefore hofpital practice is not inftructive there.

With refpect to divinity, the States certainly are already in the poffefion of teachers, who, for ability, faithfulnefs, piety, and virtue, are inferior to none. Of this clafs of men in the United States, we find none of thofe idle, diffipated, debauched charafters which European eftablifhments fofter and cherifh. There are no lordly priefts rolling in affluence, preying on the vitals of the poor, and sppreffing thofe they were appointed to inftruct There are none

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that can tyrannife over the confcience of man, and hurl the thunders of a fpiritual inquifition around his head, for not believing nonfenfical dogmas, or fubmitting to their tyrannic fway:-No, the minifters of the gofpel in America claim no lordfhipepvet the church, bat are what they ought to be, inftructors and examples of the people; and as there are no tithes nor livings, independent of the people, throughout the States, but on the contrary, the salaries of minifters are ensirely dependent on them, and in general nat very large, there can be few temptations to men to embrace the miniffry from improper motives. Many divines of different denominations have, however, quitted Ewrope forAmerica; and where charactetr and ability have been blended, they have invariably fucceeded. Certain it is, that where a man is ambitions of becoming uffefl in fpreading the gofpel, no part of the world feems better adapted to gratify his wifhes; an extenfive back country, where there are few or no minifters, and an extenfive Indian miffion, prefent themfelves to his view, independent of fettled towns and cities, where a variety of fentiments and increafing popelation are certainly favourable to the fettlement of a number of minifters. Thofe divines who emigrate from Europe, will probably fucceed beft who blend with the minifterial charaster that of a fchoolmafter, a character much in requeft in every part of the American continent.

With refpect to literary men, it is to be oblerved, that in America there is not as yet what may be called a clafs of fociety, to whom this denomination will apply; fuch, for inftance, as is to be found in Great-Britain, "and, indeed, in moft of the old countries of Europe. A clafs whofe profefion is literatare, and among whom the branches of knowledge are divided and fubdivided with great mimutenefs, each individual taking and purfuing his feparate department. Literature in America is, in general, an amufernent only, collateral to the occupation of the perion who attends to it. In Eilrope, it is a trade, a means of livelihood.

Certainly the Americans are notinferior in abilities to the Europeans; they are comparatively an infant fociety, and their numbers are comparatively few; and yet old as Great-Britain is in experience, abounding in her eftablifhments for the promotion of learning, preeminent in reputation, and gigantic in her attainaents of knowledge and fcience of all kinds, the fripilng of the new world, has taught her war by Waflington, and philofophy by Franklin. Rittenhoufe ranks with the beft Britifh mathematicians and aftronomers. European di-

[^44]piomatifts have flurunk before the reafonings of Jefferfon; and the lateft and acuteft of our pelicical philofophers are more than fufpected of being the difciples only of Paine and Barlow, whofe knowledge is astorioully the produce of the American fchool-but though not in abilities, the Americans are inferior to Europeans in the opportunities of knowledge; their libraries are fcanty, their collections are almoft entirely of modern books; they do not contain the means of tracing the tifitory of queftions: this is a want which the literary people feel very much, and which it will take fome years effectually to remedy, notwithftanding the exertions that have been made, and are makiag, to accomplifh it; the convalfed ftate of Europe, and the increafing profperity of America, will, however, contribute rapidly to improve their fituation in this refpect.

There is another circumftance alfo which has hitherto tended to keep back the progrefs of letters with the Americans. The war brought on much individual, as well as national poverty; neceffity. therefore, as well as the habitual induftry and frugality of the people, led every body to attend to commercial purfuits, and their attention was abforbed in the improvement rather of their pockets than of their minds. But a great change has taken place, and ere long a new generation will arife, and it is rifing, who will be enabled, by the exertions of their parents, to difpenfe with inceffant labourthey will begin to feel the want of, and they will imbibe a tafte for literature, philofophy, and the fine arts; the ufeful fciences will find their votaries as numerous and fucceffful in Anterica as in Europe; even at prefent the literati of the old continent will eafily find congenial fociety in moft of the great towns of the United States.
From what has been faid, it may be doubted whether a man of large income can pleafantly fpend it in America. A large income is not, indeed, fo eafily fpent there, as in Europe; there are not fuch pariety, nor fuch expenfive amufements; nor does an expenfive ftyle of living procure fo much refpect there as in Great-Britain.* As we have before obferved, it is not the place for a man of pleafure, in our acceptation of the word. A man may, however, enjoy all the focial comforts of life as well as thofe of a more enlarged kind; he may likewife increafe his fortune either by judicious purchafes of

[^45]land, or by the public funds, without burdening himfelf with the toils of the tradefman, or the hazard of the merchant.

Thofe who buy land on the expectation of re-felling it at an advanced price, muft not, however, buy in the thickly-fettled part of the country, for there land is nearly at the maximum price it will arrive at for many years : he muft not buy large tracts, far from all prefent fettlements, unlefs he can force the fpeedy fettlement of them by his own connections and influence. If he can do that, he may buy indeed, any where, ufing common prudence in chufing the fituation : bat if he cannot induce an emigration thither by his own exertions, he muft buy where the current of population is evidently tending, but where it has not yet reached. Certainly, land fpeculations in America, prudently entered upon, are extremely profitable : made at random they are otherwife.* If thefe do not fuit, part of the American fock pays above fix per cent. per annum, and the deferred ftock above feven.

The American debt is funded in three kinds of fock, viz. the three-per cent. ftock, the fix per cent. ftock, and the deferred fock; this latter bears no prefent interef, but intereft at fix per cent. will become payable upon it, from and after the firt of January, 1801.

In the beginning of June, 1794 , the prices of American ftock were in London, Per cent. f. s. $d_{0}$
Six per cent. ftock, ninety pounds per cent. thus paying an jintereft of . . . . . . . . . . . . . . . . . 6134

Three per cent. fifty pounds per cent.-paying an intereft of

609
Deferred ftock fifty-feven pounds per cent. upon which, if compound intereft be reckoned at five per cent. until 180r, the fifty-feven will amount to eighty pounds, which therefore will yield

Shares in the American bank, which has hitherto paid pight pounds per cent. at one hundred and fix pounds per ceet. paying an intereft of .............615 9

* Purchafers in this couptry, and meaning to ftay here, will not find it țheir intereff, in general, to embark a portion of property fo imall as not to pay for an agent on the fpot. In this cafe, it fhould be a joint concern. But fo much caution is requifite to perfons not going themfelyes to America, that we cannot recommend the invefiture of a foriume there, uniefs the pincipal, or fome of the principais, act upon perfonal knowe ledge:

The furplus revenue of the United States is about one million two hundred thoufand dollars, or two hundred and feventy thoufand pounds fterling, per annum; this is laid out on the principle of a finking fund, to difcharge the debt.

But on the whole, it is certainly beft for a man of middling fortune, that is, perfons of from two hundred and fifty to five thoufand pounds fortune, to become farmers. We do not know that large fortunes are to be made by farming, but affured we are, that a mode rate fortune may as certainly, eafily, and more pleafantly, produce a common average profit in that line than in any other.

A hundred and fifty acres of land, with a tolerable houfe and bam upon it, and fufficient land cleared, for a perfon immediately to begin as a farmer, may be purchafed in many parts at four pounds currency an acre,* payable one-fifth, perhaps, down, and one-fifth every year, with intereft. We doubt whether this is more profitable, than the purchafe with the fame money of a large quantity of unimproved land, if the fettler chufe to encounter the difficulties of the firf twelve months, which are difficulties to Englifhmen only; to Americans they do not appear under that form. .

The land thus purchafed is a fpecies of property that muft of neceffity receive an annual increafe in value, from the natural population of the country, befides tijat which the induftry of the proprietor may confer upon it; we think we feak within compafs, when we fay that an induftrious cultivator, befides making a plentiful livelihood ănd good intereft of his capital, will find his farm quadrupled in value at the end of ten years, if he bought it in any cheap part of the back country, which was at the time in the courfe of fettling.

To 'perfons with a family, the advantages are much on the fide of farming; the value of the produce of America is much higher than in England, when the lightnefs of the taxes, and the cheapnefs and fertility of the land are confidered. Among farmers, there is not, as in great towns, a perpetual temptation to unneceffary expenfe, or a ftyle of living above income; and a man who has lived in the eafe and plenty of middle life, need not give his fon a better or a more certain eftablifhment at fetting out in the world, than five hundred acres of land and five hundred pounds to begin with; and this, teen years hence, will eafily be within the compafs of men of modefate fortune, who begin their American career now.

Nany things are daily prefenting themfelves, by which the profite of land will be greatly enhanced in the United States. They have hitherto imported a great part of their drink from abroad, viz. rum, brandy, gin, \&c. but they find, by extending their breweries fo far as to render thefe fpirituous liquors in part unneceffary, that they will want above two millions of bufhels of barley for the purpofe, and large quantities of hops, befides having ufe for a farther part of the immenfe quantities of fire-wood and coal, with which their country abounds. They have alio obtained the European cotton mill, by means of which, and a few of their innumerable mill feats, the owners of lands, in the fix fouthern States, will be called upon to fupply great quantities of cotton. The movements of a mill for fpinning flax; hemp, and combed wool, have alfo been conftructed there, by which the farmers, throughout the Union, will be called upon to fupply farther quantities of flax and hemp, and to increafe their fheep. The rolling mill for iron and other metals, and the tilt hammer for all large iron work, have been lately brought into extenfive ufe, and will, no doubt, be erected in all the States. But the detail of water works, and mechanifm, which may be introduced into a country, that has, moderately fpeaking, ten thoufand, and probably nearer swenty thoufand mill feats, would be endlefs.

The term "farmer" is not fynonimous with the fame word in England, where it means a tenant, holding of fome lord, paying near feven-eighths of the produce in rent, tythes and taxes: an inferior rank in life, and occupied by perfons of inferior manners and education. In America a farmer is a land-owner, paying no rent, no tythes, and few taxes, equal in rank to any other in the State, having a voice in the appointment of his legiflators, and a fair chance, if he deferres it, of becoming one himielf. In fact, nine-tenths of the legiflators of America are farmers.

A man may buy three hundred acres of rich, but unimproved, land at prefent, in the well-fettled part of the back country, for thity fuillings per acre, currency, payable by inftalments. In the courfe of a fummer he may, with a couple of men to help him, clear grourd enough to maintain fome cattle through the winter, and may have a comfortable log-houfe built, which he may improve or enIarge at his leifure. To do this, to put one-third of the whole into an arable fate, and to pay the firft and fecond inftalments, will colt him, with the wages of the men, the keep of himfelf and a modefate family for twelvemonths, and the neceffary cattle and imple-
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ments of huibandry to cultivate this quantity properly, about four hundred and fifty or five hundred pounds fterling.

The above is the price of prime land in very eligible fituations, but purchafes may be made much lower, and to much greater advantage, particularly in Kentucky and the weftern territory, where the population of the country is not fo great. We have thus endeavoured to anfwer, in as brief and comprehenfive manner as poffible, the leading queftions which an emigrator will be inclined to put : there are others which, though not of equal importance, are not without their weight, as

What is the ftate of politics in America ?-Is the Commonwealch of the United States likely to prove durable?

With refpect to the ftate of politics in America, they have among them-a few fufpected royalifts, exclufive of fome Englifimen fettled in the great towns, whom the Americans regard as unreafonably: prejudiced againft their government, and infected with a kind of maladie du pays.

The reft of the Americans are republicans, but of two claffes: the one leaning to an extenfion rather than a limitation of the powers of the legillative and executive government; or, in other words, rather leaning to Britifh than to French politics; inclining to introdure and extend the funding, the manufacturing, and the commercial fyftems. In this clais rank almoff all the executive officers of government, with the Prefident at their head; the majority of the members of the fenates, and the greateft part of the opulent merchants of the large towns : this party is denominated the Federalifts, partly becaufe they were the chief introducers and fupporters of the prefent federal government, and the conftitution of $17 S_{7}^{2}$; and partly from the very ingenious feries of letters in favour of that conftitution by Mr. Hamilton, termed "The Federalift."

The other party are called, "Anti-federalifts;" not becaufe they are adverfe to a federal government, or wifh, like the French, for a republic, one and indivifible, but in contradiftinction rather to the denomination of the other clafs. The Anti-federalifts, at the time when the prefent American conftitution was in agitation, were hoftile to the extenfive powers given to government, and wifhed for more frequent returns to the people, of the authority thes were to delegate to their truftees in office. This party objects to the falaries given to the officers of government as too large, to the ftate and diftance affumed by fome among them. Not even excluding the Prefident

Wa:mington, whofe manners and mode of living, cold, refeived and ceremonious, as is faid, have tended in fome degree to counteract the effect of his great abilities and eminent fervices. The Anti-federalifts alfo rather lean to the French theory, though not to the French practice of politios; and they are averfe to what they deem the monopolizing fpirit, and infulting arrogance of fuperiority in England. This fpirit of animofity againft Great-Britain has been prodigioully increafed by the part the is fuppofed to have taken in fomenting the Indian war, in exciting the hoftilities of the Algerines, in feizing the fhips and obftructing the commerce of the American merchants, in refufing or neglecting to give up the pofts upon the lakes, or to make reparation for folen negroes. The conduct of the Britifh Court has certainly given ftrength to the Antifederal party, among whom may now be ranked the majority of the people, and the majority of the houfes of reprefentatives.

It will be eafy to conjecture from the preceding account, that the Federalifts are the ins, and the Anti-federalifts the outs of the American government; and this is in a great degree, but not univerfally true.

With refpect to the ftability of the American Commonwealth, there is great probability that its duration will be longer than any. empire that has hitherto exifted: for it is a truth univerfally admitted, that all the advantages which ever attended any of the monarchies of the old world, all center in the new; together with many others, which they never enjoyed. The four great empires, asd the dominions of Charlemaigne and the Turks, all rofe by conquefts, none by the arts of peace. On the contrary, the territory of the United States has been planted and reared by a union of liberty ${ }_{2}$ good conduct, and a!l the comforts of domeftic virtue.

All the great monarchics were formed by the conquefts of kinge doms, different in arts, manners, language, temper and religion, from the conquerors; fo that the union, though in fome cafes very flrong, was never the real and intimate connection of the fame people; and this circumftance principally accelerated their ruin, and was abfolutely the caufe of it in fome. This will be very different in the Americans. They will, in their greateft extent and popuIation, be one and the fame people; the fame in language; religion, laws, manners, tempers and purfuits; for the fmall variation in fome diftricts, owing to the fettlement of Germans, is an exception fo very flight, that in a few agee it will be unknown.

The Affyrian and Roman empires were of very flow growth, and therefore lafted the longeft ; but ftill their increafe was by conqueft, and the union of diffonant parts. The Perfian and Macedonian monarchies were foon founded and prefently overturned; the former not lafting fo long as the Affyrian, nor a fixth of the duration of the Roman; and as to the Macedonian, it lafted but fix years. This advantage of a flow growth is ftrong in favour of the Americans; the wonderful increafe of their numbers is the nacural effect of plenty of land, a good climate, and a mid and beneficent government, in which corruption and tyranny are wholly unknown. Some centuries are already paft fince their firft fettlement, and many more will pafs before their power appears in its full fplendor; but the quicknefs of a growsh that is entirely natural will carry with it no marks of decay, being entirely different from monarchies founded by force of arms. The Roman empire perifhed by the hands of northern barbarians, whom the maiters of the world difdained to conquer; it will not be fo with the Americans, they fpread gradually over the whole continent, infomuch that two hundied years hence there probably will be nobody but themfelves in the whole northern continent; from whence, therefore, thould their Goibs and Vandals come? Nor can they ever have any thing to fear from the fouth; firf, becaufe that country will never be populous, owing to the porfeffion of mines; fecondly, there are feveral nations and lingunges planted and remaining in it; thirdly, the moft confiderable part of it lies in the torrid zone, a region that never yet fent forth nations of conquerors.

In extent the habitable parts of North-America exceed that of any of the four empires, and confequently can feed and maintain a people much more numerous than the Affyrians or the Romans. The fituation of the region is fo advantageous that it leaves notaing to be wifhed for; it can have no neightours from whom there is a poffibility of attack or moleftation; it will poffeis all the folid advantages of the Chinefe empire without thê, fatal $n \in$ :ghbourhood of the Tartats.

It will have farther the fingular felicity of alk the advantages of an illand, that is, a freedom from the attacks of others, and too many difficulties, with too great a diftance, to engage in enterprifes that heretofore proved the ruin of other monarchies.
Vog. III. $X x$ The

The foil, the climate, production, and face of the continent, is formed by nature for a great, independent and permanent government : fill it with people who will of themfelves, of courfe, poffers all forts of manufactures, and you will find it yielding every neceflary. and convenience of life. Such a valf tract of country, poffeffing fuch fingular advantages, becoming inhabited by one people, fpeaking the fame language, profeffing the fame religion, and having the fame manners; attaining a population equal to that of the greatef empire; fprung from an active and induftrious nation, who have transfufed into them their own induftry and firit, and feen them worthy of their original; inhabiting a foil not dangeroufly fertile, nor a clime generally conducive to effeminacy; accuftomed to commerce : fuch a people muft found a commonwealth as indiffoluble as humanity will allow. Suffice it for England, that fhe will have been the origin of a commonwealth greater and more durable than any former monarchy; that her language and her manners will flourifh among a people who will one day become a fplendid fpectacle. in the vaft eye of the univerre. This flattering idea of immortality no other nation can hope to attain.
And here let us make an obfervation, that flould animate the authors in the Englifh language with an ardour that cannot be infured into thofe of any ather nation; it is the pleafing idea of living among fo great a people, through almoft a perpetuity of fame, and under almoft an impoffibility of becoming, like the Greek apd Latin tongues, dead; known only by the learned. Increafing time will bring increafing readers, until their names become repeated with plea. fure by above an hundred millions of people!

Having endeavoured to anfwer what we conceive will be the leading inquiries of an European, who has an intention of removing from his native country to America, we fhall proceed to offer fuch information, as from the plan laid down we had not the opportunity of introducing, or at leaft but lightly, into the preceding part of the work, or which we judged would be beft deferred to the prefent period of it : in doing this, we flall endeavour to introduce our information with a fpecial reference to that clafs of emigrators, whofe various callings may induce them to fettle in towns or cities; and to thofe who, engaged in rural economy, will take up their refidence in the back country, or the weftern territory : many parts, however, will be applicabte to both, for the farmer will in various
cales find hintifelf connected with the cities and towns；it is there he muft feek markets for his ftock；and it is from his labours the towns and cities muft receive fupplies．

The following tables will prove advantageous to men of every defcription，who have any connection with America，but particularly to an European fettler：

## A TABLE of the Value of fundry Coins, as they now pafs in Greats Britain and the United States



## METHOD OF REDUCING CURRENCY TO STERLING.

Currency in Pennfylvania, New-Jerfey, Delaware, and Maryland, is reduced to fterling by multiplying by three and dividing by five, one hundred pounds fterling making at par one hundred and fixty-fix poupds thirteen and eight-pence Pennfylvania currency. That is, a merchant, when exchange is at par, will give a draft on Pennfylvania for the above fum on receving one hundred pounds fterling. At prefent a merchant in London will give more, and therefore it is advantageous to buy bills on America.
Currency in New-York and North-Carolina is reduced to fterling by multiplying by nine and dividing by fixteen. Thus a milling Nerv-York currency is fix-pence three farthings fterling.

Currency in New-Hamplhire, Maflachufetts, Rhode-Ifland, Virginia, and the weftern territory, is reduced to fterling by multiplying by three and dividing by four.
Currency in South-Carolina and Georgia is reduced to fterling by: deducting ope twenty-feventh.

A TABLE of the Value of the Gold Coins of the following Countries, as eftablifhed by the Act of Congrefs, paffed Feb. 9th, 1793, viz.


Value of Dollars in Sterling, reckoning the Dollar at 4 s .6 d .


A TABLE of the Value of Cents in Pence,* as computed at the Banks of the United States and North-America.


- That is, pence in currency, wherein one penny currency is equal to three-fifiths of a penny fterling.

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A TABLE of the Value of Cents in Sterling Money.


## POSTAGE OF LETTERS THROUGHOUT THE UNITED STATES.

For the poftage of any fingle letter to or from any place by land, not exceeding thirty miles, 6 cents; over thirty to fixty, $S$ cents; over fixty to oie hundred, 10 cents; over one hundred to one hundred and fifty, $12 \frac{1}{2}$ cents; over one hundred and fifty to two hundred, 15 cents; over two hundred to two hundred and fifty, 17 cents; over two hundred and fifty to three hundred and fifty, 20 cents; over three hundred and fifty to four hundred and fifty, 22 cents; and from every place more than four hundred and fifty miles, 25 cents.

## PRICE CURRENT.

Philadelphia, Jan. ir, 1794.
Per quantity, dollars 100 cents each.
To thofe engaged in mercantile concerns, we conceive the follow:ing price current of goods, wares, \&c. as they actually were at Philadelphia in January, 1\%94, will prove acceptable, as it will afford them an opportunity of comparing the prices of articles at the greateff American mart, with the fame articles at the part of London.

 yard price, add I dollar 33 cents per 1000.

Erimftone in rolls, per cwt.
Beef, Bofton, a barrel of
— Country ditto
Butter, per lb.

| lber cwt. |
| :--- |
| Candles, feérm. per H. |

Wax
—— Myrtle wax
Mould, tallow
Cbeefe, Englifh, per lb.

| 0 | 0 | 2 | 0 |
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| 0 | 0 | 10 | $1 i$ |
| 9 | 0 | 10 | 0 |
| 3 | 33 | 4 | 67 |
| 0 | 0 | 0 | 25 |
| 0 | 15 | 0 | 18 |
| 0 | 0 | 0 | 48 |
| 0 | 53 | 0 | 56 |
| 0 | 0 | 0 | 18 |
| 0 | 0 | 0 | 16 |
| 0 | 0 | 0 | 14 |
| 0 | 0 | 0 | 25 |
| 0 | 10 | 0 | 12 |
| 0 | 16 | 0 | 18 |
| 2 | 40 | 2 | 67 |
| 0 | 0 | 1 | 33 |
| 10 | 0 | 11 | 0 |
| 0 | 0 | 0 | 16 |
| 0 | 24 | 0 | 33 |
| 0 | 0 | 1 | 6 |
| 9 | 0 | 10 | 0 |
| 0 | 27 | 0 | 37 |
| 0 | 0 | 0 | 12 |
| 0 | 0 | 14 | 0 |
| 0 | 0 | 11 | 0 |
| 18 | 0 | 20 | 0 |
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| 0 | 11 | 0 | 12 |
| 0 | 80 | 0 | 90 |
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Amfterdam, 60 days, per guilder

- 90 days

Government bills, drawn at io days fight, at $42 c$. per guilder.

## TABLES OF DUTIES, \&c.

The following table of duties payable on goods, wares and merchandife, imported into the United States of America, after the goth day of June, 1792, in conformity to the feveral acts of Congrefs of roth of Auguft, 1790, 2 d day of March, 1791, and 2d day of

Of
On London, at 30 days, per $£ .100$ fterling . 466

- at 60 days . . . 463
- at 90 days . . . . 46I
$\frac{2}{3}$
$\frac{2}{3}$
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42
40 May, 1792. Alfo rates of fees, coins and tonnage, by the act for the collection of the faid duties, and by the act for laying a duty on the tonnage of fhips and veffels, we conceive will prove of impor: rance to thofe in the mercantile line in particular.


## wines.

Madeira wine, London particular, per gallon . Conts
Iondon market, per ditto . . . . . 49
Other Madeira wine, per ditto : . . 40
Sherry wine, per ditto . . . . . 33


## ALL OTHER DISTILLED SPIRITS.

Of the fecond clafs of proof and under, per galion :. 25
Of the third clafs of proof, per ditto . $\because$. 28
Of the tourth clafs of proof, per ditto - . $3^{2}$
Of the fifth clafs of proof, per ditto . . . 38
Of the faxth clafs of proof, per ditto . . . $4^{6}$

TEAS FROM CHINA AND INDIA, IN SHIPS OR VESSELS CF THE
UNITED STATES.
Bohea, pet pound . . . . 10

- Souchong and other black teas, per lb. . . . 18

Hyfon, per lb. . . . . . . . 32
Other green teas per lb. . . . . . 20
TEAS FROM EUROPE, IN SHIPS OR VESSELE OF THE ERITED STATES.
Bohea, perlb. . . . . . 12
Souchong and other black teas, per lb. . . 12
Hyron, per lb. . . . . . . 40
Other green teas, per lb. . . . . 4
teas, foc. Trom any other phace, or in Any other shirs QR VESSELS.
Bohea, per lb.


Playing cards, per pack . . . 25

Coaches and carriages of all kinds, or parts of carriages,
15 1-2 per cent. ad valorem.

## FIETEEN PER CENT:AD VALOREM.

Swords, gutlaffes and other fide arms; china ware, fringes, mufkets, piftols and other fire-arms, glais, black quart bottles excepted, glue, hair powder, laces and lines ufed by upholfterers, coachmakers and faddlers; paper hangings, painters colours, whether dry or ground in oil; ftarch, taffels, trimmings and wafers.

## TEN PER CENT. AD VALOREM.

Anifeed, bricks and blank books, fhoe and knee buckles, buttons of every kind; bonnets of every fort; manufactures of brafs; clocks, cinnamon, cloves, currants, comfits, capers, fugarcandy, cabinet ware, copper ware, or in which copper is the article of chief value ; carpets and carpetting; caps of every fort ; cofmetics, dates, medicinal drugs, dolls dreffed and undreffed; dentifrice powder, earthen and ftone ware; figs, fruits, generally; artificial flowers, feathers and other ornaments for women's head-dreffes; fans, gold, fiver and plated ware; gold and filver lace; groceries, except articles enumerated, ginger, gunpowder, gloves and mittens; hats of every fort ; jewellery and pafte-work; iron, caft, flit and rolled, and generally all manufactures of iron, or of which it is the article. of chief value, not being otherwife particularly enumerated; lampblack, lemons and limes, leather tanned or tawed, and all other manufactures of which leather is the article of chief value, not otherwife particularly enumerated; marble tables, mortars, and others utenfils; mace, muftard in flour, nillenery ready made, matts and floor cloths; nutmegs, oranges, oil and olives; writing and wrapping paper, fheathing and cartridge paper, parchment and pafteboard; plums and prunes, pickles of every fort; pewter, or where it is the article of chief value, not being otherwife particularly enumerated; powders, paftes, balfams, oils, ointments, walles, tinctures, effences, or other preparations or compofitions, commonly called fweet fcents, odours, perfumes, or cofmetics; preparations or
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## 354

 GENERAL INFORMATIONcompofitions for the tecth or gums; pictures and prints, raifins, flate and other fones, manufactures of fteel, of which it is the article of chief value, not being otherwife particularly enumerated; ftockings, fail cloth, tites; manufactures of tin, or of which it is the article of chief value, not otherwife particuiarly enumerated; toys, vellum, and watches.

On all goods, wares, and merchandife, imported directly from China or India, in Mips or veffeis not of the United States (teas excepted) twelve and a half per cent. ad valorem.

Upon all other goods, wares, and merchandife, fevet and a half per cent. ad valorem.

## SEVEN AND A HALE PER CENT. ADVALOREM.

Anchors, brufhes, canes, cloathing ready made, cambrics and chintzes, coloured calicoes, and all printed, ftained, and coloured goods, or manufacture of cotton or of both; gauzes, lawns and laces, mullins and muflinets, faddles, nankeens, walking fticks, fatins and wrought filks, velvet and velverets, and whips.

## ADDITION OF TEN PER CENT.

T. be made to the feveral rates of duties above fpecified and im . pofed, in refpect to all goods, wares, and merchandife imported in flhips or veffels, not of the United States, except in the cafes in which an additional duty is herein before fpecially laid, on any goods, wares, and merchandife, which liall be imported in fuch fhips or veffels.

Goods ad valorem to be valued by adding twenty per cent. to the actual coft, if from the Cape of Good Hope, or from any other place beyond the fame, and ten peer cent. if from any other place, exclufive of charges.

CREDIT FOR THE PAYMENT OF DUTIES, \&c.
When the amount of the duty to be paid by/one perfon, or copartnerhip, fhall exceed fifty dollars,
On falt
nine months.
On all articles, the produce of the Weft-Indies
falt excepted ... . . . four months.
On all other articles, wines and teas excepted $\left\{\begin{array}{l}\frac{1}{2} \text { in fix months } \\ \frac{1}{4} \text { in nine months } \\ \frac{1}{4} \text { in twelve months. }\end{array}\right.$

## BOUNTY.

Allowed on every barrel of pickled finh, of the finheries of the United States18

On every barrel of falted provifions, falted within the United States • . . . . 15
And from and after the firft day of January, 1793 , an addition of twenty per cent. to the allowances refpectively granted to fhips or veffels employed in the bank or other cod fifheries. T O N N A G E.
Tonnage is, by an aif of the 20th of fuly, 1792, to be paid in ten days
after the entry, or before clearance.
On any flip or veffel of the United States, entering from any fo-
$\begin{aligned} & \text { reign ports or place, per ton } \\ & \mathrm{Z}_{2} 2\end{aligned}$ T O N N A G E.
Tonnage is, by an aif of the 20th of fuly, 1792, to be paid in ten days
after the entry, or before clearance.
On any flip or veffel of the United States, entering from any fo-
$\begin{aligned} & \text { reign ports or place, per ton } \\ & \mathrm{Z}_{2} 2\end{aligned}$ T O N N A G E.
Tonnage is, by an aif of the 20th of fuly, 1792, to be paid in ten days
after the entry, or before clearance.
On any flip or veffel of the United States, entering from any fo-
$\begin{aligned} & \text { reign ports or place, per ton } \\ & \mathrm{Z}_{2} 2\end{aligned}$ T ONN A G E.
Tonnage is, by an ait of the 20th of fuly, 1792, to be paid in ten days
after the entry, or before clearance.
On any fhip or veffel of the United States, entering from any fo-
reign port or place, per ton
$\mathrm{Z}_{2} 2$ T O N N A G E.
Tonnage is, by an aif of the 20th of fuly, 1792, to be paid in ten days
after the entry, or before clearance.
On any flip or veffel of the United States, entering from any fo-
$\begin{aligned} & \text { reign ports or place, per ton } \\ & \mathrm{Z}_{2} 2\end{aligned}$ T O N N A G E.
Tonnage is, by an aif of the 20th of fuly, 1792, to be paid in ten days
after the entry, or before clearance.
On any flip or veffel of the United States, entering from any fo-
$\begin{aligned} & \text { reign ports or place, per ton } \\ & \mathrm{Z}_{2} 2\end{aligned}$
United States . . . . . 18

No beer, ale, or porter, after the laft day of December, 1792, to be imported from any foreign port, except in calks or veffels, the capacity whereof fhall not be lefs than forty gallons, or in packages, containing not lefs than fix dozen of bottles, on pain of forfeiture of the faid beer, \&ic. and of the fhip or veffels in which the fame thall be brought.

No diftilled fpirits, arrack and fweet cordials excepted, after the laft day of April, $\mathbf{x} 793$, to be imported from any foreign port, in veffels of lefs capacity than ninety gallons, on pain of forfeiture of the faid fpirits, and of the fhip or veffel in which the fame flall be brought.

## EXCEPTIONS.

Bullion, tin in pigs, tin plates, old pewter, brafs, teutenack, iron and brals wire, copper in plates, pigs, and bars, faltpetre, plaifter of Paris, unmanufactared wool, dying woods and dying drugs, raw hides and ikins, wood, fuphur, lapis calaminaris, undreffed furs of every kind, the fea fores of liips or veffels, the cloaths, books, houfhold furniture, and the tools or implements of the trade or profeffion of perfons who come to refide in the United States, philofophic apparatus fpecially imported for any feminary of learning, all goods intended to be re-exported to a foreiga port or place in the fame fhip or veffel in which they flall be imported, and generally all articles of the growth, product, or manufactures of the United States.

On any fhip or veffel of the United States, entering in a diftriet ${ }^{\text {Cen }!S_{\text {h }}}$
in one State, from a diftrict in another State, other than an
adjoining State, on the fea coaft, or on a navigable river,
having on board goods, wares, \&cc, taken in one State, to be
delivered in another State, per ton
On all hips or veffels of the United States, licenfed to trade between the different diftricts, or to carry on the bank or whale fifieries, while employed therein to pay once a year, per ton
On all fhips and veffels built within the United States after the 20th July, 1789 , but belonging wholly, or in part, to fub-

- jects of foreign powers, per ton

On all other fhips or veffels, per ton
On every flip or veffel, not of the United States, which fhall be entered in one diffict from another diftrict, having on board goods; wares and merchandife, taken in, in one diftrict, to delivered in another diftrict, per ton

## PAYMENT OF DUTIES.

| Payable in gold coins of England, France, Spain, and Portugal, and all other gold coins of equal finenefs, at per |  |
| :---: | :---: |
|  |  |
| -penny weight | - 89 |
| In Mexican dollars, each | 100 |
| In crowns of France and England | 111 |
| In all other filver coin of equal finenefs, per ounce | 111 |
| In cut filver of equal finenefs, per ditto, | 6 |
| Each pound fterling of Great-Britain -: | 444 |
| Each pound flerling of Ireland | 410 |
| Each florin or guilder of the United Netherlands | - 39 |
| Each mark banco of Hamburgh | - $33 \frac{\mathrm{~T}}{5}$ |
| Each rial of plaie of Spain | 0.10 |
| Each milree of Portugal | I 24: |
| Each tale of China | 148 |
| Each pagoda of India | 194 |
| Each rupee of Bengal . | - 553 |

TARES AND ALLOWANCES.
The following are the tares allowed by the thirty-fourth fection of

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Ever
Ever
Ever
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Ever

Fort
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Ditto
dre
Abov
TO EUROPEAN SETTLERS.


## FEES OF OFFICE.

TO THE COLEECTOR AND NAVAL OFFICERS, JOIXTLY.
Dolls. Cents
For entrance of any fhip or veffel of one hundred tonis and upwards . . . 250
Clearance of any fhip or veffel of one hundred tons and
upwards
Entrance of any flip or veffel under one hundred tons . I 50
Clearance of ditto ditto . . . I 50
Every permit to land goods . . . . 20
Every bond taken officially . . . . 940
Every permit to load goods for exportation $\because \quad$. $03^{\circ}$
Every official certificate . . . . 20
Every bill of health . . . . o 20
Every other official document, regifter excepted . O 20
sURVEYOR'S fees.
For the admeafurement of every fhip or veffel of one hundred tons and under, per ton

I 0
Ditto above, one hundred tons, and not exceeding two hun-
dred tons $\quad \therefore$. $\quad$. 50
Above two hundred tons . ! ! 20 For

For all other fervices to be performed on board any fhip or veffel of one hundred tons and upwards, having on board goods, wares, and merchandife, fubject to dury
For like fervices on board any thip or veffel of lefs than one hundred tons burthen, having on board goods, wares, and merchandife, fubject to duty 1. 50

On all veffels, not having on board goods, wares, and merchandife, fubject to duty - 66

In a former part of this work * we ftated the amount of the exports of the United States for the year, ending September 30, 1791, . With their proportions to the different countries to which they trade; to that fratement we now add fimilar accounts for the years 1792 and 1793; ending at the fame period in each year. By comparing thefe scounts, we may form fome idea of the rapid increafe of their trade.

\author{

* Vol. I. P. 274
}


## AMOUNT OF EXPORTS.



[^46]
## RENT, PRICES OF LAND, PROVISIONS, \& \& e.

On this article; with refpect to the New-England States; we are not enabled to add much additional information. In the country parts; provifions of all kinds, the produce of America, are very cheap, in many inftances, muck below half the price in the country parts of England, but the general average is from one third to one half lefs.

Fin is plenty, and cheap beyond any comparifon with the moft favourable. European markets; the fea around their coafts, and the inland rivers, furnifhing an inexhauftible fupply. Game of various kinds is alfo exceedingly plenty. Some addition muft be made to the prices of moft articles in the large towns, owing to the number of Europeans which the prefent diftreffing fituation of affairs in their own countries have driven thither.

With refpect to the Middle States, we are enabled to adduce more particular information. The journe;s of the Rev. Mr. Toulmin and Mr. Cooper have afforded information fufficient to enable us to form a tolerable correct idea of the price of moft articles in thofe parts of the Union; the places where the prices are taken being fo fituated as in the general to afford a medium average.

## ZIRGINIA.

Urbanna, upon the Rappahannock in the county of Mid* defex.*-Soil, white, loofe, fandy.-Price, about one third cleared, $\dagger$ fifteen flillings $\ddagger$ per acre of fixty nine and two-thirds yard fquare. The rent of corn land, about one flilling and fix-pence per acreThe labour here, as in moft parts of Virginia, is by flaves only, either purchafed or rented. They are hired at from fix to nino pounds a year, the mafter finding provifions and cloathing, and paying the tax. The ufual allowance to a flave is a peck and half of the meal of Indian corn per week; fometimes pickled and falted herrings or mackarel.-The cloathing is very trifing.

The produce of land heie is tobacco, wheat, and corn. 8 -The

[^47]Rown about two feet from the ground, the fumps remainitys.
I All the fums are reckoried in ferting, except oferwic mentioned.
§ By corn is meant exclifively Indaa corn or mazize. Bà ie Turquie.
market is by water direct from̀ Ǔrbanna to Europe.-Corn alfo, maize, to New-England, Nova-Scotia and to the Weft-Indies ; the price on an average, wheat four fhillings and fix-pence per byile!, and corn thirteen fhillings and fix-pencè per barrel of five bufiels.

Richmond, and the neighbournood,-Soii; fandy, except on the banks of James river where it is rich. The price'of land from four to lix guineas per acre; but land by the whole tract, incliding buildings, cleared and uncleared tand iogether, cleicm exceeds, at ten miles diftance from the town, twenty to forty-five fhilings per acre. It is reckoned in this, and many parts of this State, an advantage to have a great part of it in wood, becaufe the culture of tobacco, which has been common, but is now rapidly giving way to wheat, has exhauitcd the land fo much, that it is ufed out, and is generally reckoned at nothing in the purchafe. Labour here is one fhilling and fix-pence to two millings a day, with provifions. In harveft, from two fhillings and fixpence to three fhillings and fix-pence a day. All flave iabour. -Indian corn fells here from one fhilling and fix-pence to one fliiling and ten-pence halfpenny per Winchefter bufhel ;-wheat, three flilitings and four-pence to three Millings and nine-pence ;-barley, two fhillings and feven-pence to three-fhiilings;-oats, eleven-pence to one milling and four-pence;-rice, from twelve to thirteen fillings and fix-pence per hundred pounds;-potatoes, one fiilling and fixpence to two flillings and three-pence per bufhel;-flour, from wheat, per barrel of one hundred and ninety-fix pounds net, nincteen fillings and fix-pence to twenty-two finilings and fixpence; -hops; one chilling and one peniny per pound;-confee, nine-pence to eleven-pence, if bought by the cwi. re:ail, one fhiling and a penny; - tea, bohea, retail, two fliliings, and three-pence; fouchong, four niilings and fix-pence; -hyfon, fiven flillings and fisi-pence per lb . ;-by the cheft, bohea, one anilling and fix-pence to one hilling and ten-pence ; hyfon, four flaillings and fix-pence to five finilingss and three-pence per tb:--chocolate, feven-pence io nine-pence per lb. by the box of fifty pounds weight; butter, by the calk of fixty pounds, five-pence to feven-pence per lb. -cheefe, four-pence to inx-pence;-fugar, brown, by the hoghead, thirtr-feven pounds ten fillings to fixty pounds. Formerly it was thirty poúnds to thirty-feven pounds ten fillings; retail, fix-pence to eight-pence per 1 b .; loaf, eleven-pence to one flilling and threepence; -treacle, one fhilling and fix-pence to two fillings and threepence per gallon by the hogfiead.-American rum by the hogflicad,

$$
\text { Vol. III. . . } 3 \text { A } \quad \text { two }
$$

two flillings and feven-pence to three fillings per gallon; WeftIndia, three fhillings and nine-pence to four hillings and fixpence; French brandy, four flillings and fix-pence to five fhillings and feven-pence; Virginia peach brandy, three fhillings; apple brandy, two fhillings and feven-pence to three fhillings; whikey, three flillings; gin, per gallon, three fhillings and four-pence; gin in cafes of four and a half gallons, brought from Holland, twenty fillings to twenty-two hillings and fix-pence; Teneriff wine, three fhillings a gallon by the pipe; Libon, fix pounds fifteen fhillings to feven pounds ten fhillings; Malaga, five pounds five fhillings to fix pounds fifteen thillings per cafe, of thirty gallons; Miadeira, forty-five to fifty guineas per pipe;-London porter, nine thillings and nine-pence to ten fhillings and fix-pence per dozen, bottles included. Beer is not ufed;-cyder, by the calk or hoghead, threepence to five-pence halfpeniny per gallon.-Grafs fed beef, three-half-pence to two-pence farthing per lb . ftall or winter fed, twopence farthing to three-pence;-veal, four-pence half-penny to
to
fix
pounds a pair;-fheep, four fillings and fix-pence to twelve fhillings each ;-waggons, with geer. complete for four horfes, that will carry a ton and an half, twelve to eighteen pounds ;-cart for twe horfes, feven to eight pounds.

## PURLISHED RATES AT THE EAGLE TAVERN, RICHMOND, IN VIRGINIA.

Breakfaft, one fiilling and fix-pence;-dinner, with grog or toddy, two flillings and three-pence;-cold fupper, one fhilling and fix-pence ;-a bottle of porter, one flilling and ten-pente half-penny ; 2 quart of punch the fame;-a quart of toddy, one fhilling and a penny half-penny;-a quart of grog, eleven-pence farthing;-a bed room furnifhed, if above ftairs, thirteen-pence half-penny, or quarter dollar ; *-horfes kept at livery, two fhillings and three-pence per twenty-four hours; fervants, two fhillings and three-pence per day.

Wincaester. $\dagger$-Fifh faited; flad, one pound two fhillings and Sx-pence; herrings, eighteen fhillings; falmon, two pounds five fhillings per barrel, of two hundred pounds weight each; oyfters, when in feafon, two fhillings and three-pence per bufhel;-fruits; apples in autumn, nine-pence per bufhel; at Chrittmas, one fhilling to one fiilling and fix-pence;-peaches, from one fhilling and fixpence to three fhillings per bufhel;-currants, two hhillings and three-pence per bufhel, but few raifed for fale; -wild forl and pigeons few for fate;-pheafants, four-pence half-penny each;-partridges, nine-pence to one flilling a dozen.-Cloathing at Winchefter about two-thirds dearer than in London.-Oak calks of thirty gallons, three fhillings and nine-pence;-tierces, five fhillings and fix-pence ;-barrels, fix fhillings and nine-pence.-Building materials; logs trimmed on both fides, and delivered at the place of building, fomething more than one penny per foot;-fcantlings, thiree farthings per foot, meafured fide and fide at the faw mill ; flooring planks, one inch and a quarter, five fhillings and fevenpence per one hundred feet;-one inch, four Chillings and fix-pence per one hundred;-half inch, three flillings per one hundred;-

[^48]laths, on which the covering is nailed ${ }_{5}$ about two flillings per hondred feet, running meafure;-cyprefs fhingles, from ten flillings and two-pence to thirteen flillings and fix-pence per thoufand, delivered at the place of building; each hiagle covering four by fix inches;-oak fhingles, one pound one fhilling per one thoufand, covering ten by four inches;-chefnut fhingles, twelve fhillings per thoufand, covering fix by four inches; -lime, four-pence halfpenny per bufhel;-bricks delivered, eighteen fhillings per thou-fand;-window glafs, ten inches by eight, two pounds nineteen fhillings a box, containing one hundred feet.

Wages; one fhilling and three-pence, to one fhilling and fixpence per perch, when the work is complete; when found with pro-vifions.-Plaifterers, three-pence per each fquare yard, when found; glaziers, three-farthings per light, when found;-paper hanging, American, two fillings and three-pence to nine fhillings per piece, of twelve yards each;-lodging and board in town, eleven pounds to twenty-two pounds; in the country, nine pounds to fifteen pounds per annum.

Norfolk.-The country about here is rery barren; animal food dear ; vegetables cheap. Houfes of wood are cheaply built : a houfe of two ftories, fix yards by four, will coft about fifty pounds fterling. Horfes theáp to purchafe, but dear to hire; the hire of a horfe being a dollar a day : they go unfind during fummer. Board and lodying for adults, in a plain but plentiful way, four to five dollars a week; for children, two dollars; fervants, three dollars. Board and lodging per annum, thirty-three pounds fifteen fhillings. The great influx of French emigrants from the iflands having confiderably increafed the price.

Peaches, one penny and two-pence per dozen; apples, fix-pence 2 peck; cucumbers, two-pence a dozen; cyder, two-pence half-penny a quart ; milk, fixpenceia quart, owing to carelefsnefs and bad farming;* bacon, fix-pence a pound. Norfolk is about as large as Taunton in Devonfhire, or Wigan in Lancalhire. Moft of the houfes of wood; fome of brick. A neat houfe, thirty feet by tiventy-nine, two ftories high, with a kitchen on one fide, and a fmoaking room, for bacon, hams, \&c. in the yard, will coft complete, one hundred and

[^49]in waggons for feven Thillings and fix-pence per barrel of flour weighing one hundred and ninety-fix pounds, and the barrel ferenteen pounds the diftance eighty miles.

Prices of land in particular places.-Near Charlefton, within eight miles of the Potomack, the beft land three pounds fifteen millings per acre.-Within a mile of the junction, and upon the Shenandoah, it may be had for two pounds five fhillings and three pounds per acre, as the land is broken and ftony, though fit for wheat.-At Shippand's-town, on the fouth fide of the Potomack, it is from two pounds five fhillings to three pounds fifteen flillings per acre, but it. is not equal to that in the valley; it is, however, nearer to the market.*

## MARYLAND.

The neighbourhood of Haggar's town on the Antictam cteek.Soil; a dark-coloured loam fimilar to that on the fouth fide of the Potamack. Price of land from fixteen to twenty-four dollars, $i_{0}$ e. from three pounds twelve fhillings to five pounds eight fhillings per acre, one-half cleared; Withiis eight or ten miles.-Hufbandmen fcarce. Wages one fhilling and fix-pence and provifions per day, or five to fix dollars, i. e. twenty-two fhillings and fix-pence to twentyfeven flillings per month.-The market is Baltimore; where wheat fetches about feven-pence a bufhel more than at Alexandria. The price of taking flour to Baltimore, feventy-five miles, five flillings and three-pence per barrel. It may be fent to Alexandria, eighty miles for a dollar, one-third of which is for the land carriage to Wil-liam-port, eight miles, at the mouth of the Conegocheague creek: but for want of a warehoufe at the Great Falls, this mode of conveyance is lefs ufeful at prefent than it would otherwife be. Ten miles north-weft of Haggar's-town, and upon a part of the Conegocheague creek, to which the navigation may be eafily extended. Land, one-half cleared, and the reft in wood, wilt fetch fix pounds per acre. This creek has been ufed already, during a week or two in the fpring.

## PENNSYLVANBA.

Shippensburge, twenty-one miles fouth of Cárlifle.
Soil. A good loam, though nọt equal probably to that laft no-ticed.-Price of land two pounds to three pounds ten fhillings per

[^50]
## TO EUROPEAN SETTLERS.

 zere-Labour, five to fix dollars a month.-Market. Baltinnore, diftance eighty miles.Carisele, and its vicinity-Soil; a loam, as in the other parts of the valley. A ftratum of flate land runs through all the valley, and is found on one fide of the Opekàn creek, in Virginia; the Conegocheague creek, in Maryland and Pennfylvania, and the Conedogwinit creek, in Pennfylvania, where the foil is much inferior to the lime-ftone foil.-The price of land upon the lime-ftone fide of the Conedogwinit, Pennfylvania, is from three pounds fix fhillings to four pounds ten thillings per acre; being in a proportion of meadow and upland. Lands in general about three miles round Carlife, though not upon the creeks, fell from three pounds to three pounds twelve fhillings; and four pounds teu fiillings per acre, according to its quality, fuppofing about one-third cleared. Land at a greater diftance, and within feven or eight miles, at from two to three pounds, except the low rich meadows. Lands nearer the Sufquehannah, being richer and nearer market, fell from five to eight pounds, and within a mile of Harriburgh, twelve pounds an acre. Land, with indifferent improvements, near Middle-town, the head of the propofed junction between the Sufquehannah and the Skuilkil, fell from three to four pounds.

Produce. Principally wheat.
Market. Philadeiphia.
Expenfe of carriage, by land as yet, fix fillings per barrel from Harriburgh.*

Near Lancaster.-Soil; a durable clay, not liable to be much injured either by the wet in winter, or the fun in fummer-The snoft indifferent land here, with fcarcely any improvement, fells at from fix to eight pounds an acre; and often from twelve to eighteen pounds. $\dagger$ Labour is from eight dollars to ten a month, and board. -Market. Philadelphia.

[^51]Reading, and its neighbourhood, fifty-fix miles from Philadelphia, -Land at this place feils, in an improved ftate, with houfe, outhoufes, \&c. at from eight to ten pounds currency, per acre, or fix to feven pounds ten flillings ferling.

Sunbury and Northumberland, on the Sufquehannah.The houfes here aree partly built of logs, and partly of framework, one or two ftories high, fafhed and glazed, fome of them painted on the outfide, all of them neat without, and clean within; comfortable and commodie or

The price of buildinga log-houfe here, of four rooms on a floor, each about twelve feet fquare, one fory high, finifhed within fide with plain wainfootting, pannel doors, lock and thumb latches, glazed windows, \&ic. complete ; about one hundred and ninety pounds fterling. The log-houfes, of found fo uncouth to an Englifi ear, are as comfortable, as clean, ard as convenient, as any brick or flone houfe in England. They are made by placing logs of trees tranfverfely, one upon the ends of two others, which are notched to let them in; the interftices are plaiftered, and the outfide and infide frequently cafed. If the logs are placed upon ftone work, about a foot from the ground, fo as not to be expofed to alternate moifture and drought, they will lait half a century or more very well.

The foil about Sunbury and Northumberland, which, as the river only divides them; we fpeak of together, is a:fandy loam, feveral feet deep near the river, and apparently excellent for almoft any kind of vegetation. Their produce here, as in moft other parts of Pennfylvania, is corn, wheat, oats, rye, buck wheat, "potatoes and fome little barley. Prices, wheat per bufhel, three fhillings and nine-pence; oats, two fhillings to two Millings and three-pence; rye, three fhillings to mhree flillings and fix-pence; corn, maize, three fhillings; buck wheat, one fhilling and ten-pence; potatoes in the fpring, two fhillings and fix-pence to three fhillings and nine-pence, in the autumn, one fhilling and two-pence to one finlling and tenpence a bufhel. Cyder, per barrel, according to the crops of apples; in ry93 it was from thirteen fhillings and fix-pence to eighteen fhillings; 1792, it was from feven and fix-pence to nine fhillings: beer none; there was a brewery at Northumberland fome time ago, but it has been difcontinued: while it was carried on, ale fold for eighteen fhilings, and porter three pounds per barrel of thirty-one
gallons. Wages in the town two fhillings and three-pence a day; in the country one fhilling and ten-pence, to two fhillings and threepence and board. The common drink, cyder, or whilkey and water.

Beef, three-pence per lb.; mutton, two-pence to three-pence; venifon, two-pence to three-pence ; thefe are bought at the butchers, or of farmers, who bring meat to town to retail ; butter at Chriftmas, one fhilling and fix-pence per lb .

A cord of oak fire-wood, three fhillings and fix-pence; hiccory, Seven fiiliings and fix-pence.

Produce of wheat twenty to thirty bufhels an acre. A Mr. Grant, of Sunbury, one dry fummer, obtained fixty buflels per acre. Indian corn has been had from fixty to feventy bufhels per acre, but onehalf of this quantity is more common. The new lands and the ftony rich lands near the river are too rich for wheat, and require to be reduced by corn, flax or tobacco. Otherwife, unlefs in a very dry fummer, the grain fhoots up into ftraw. Wheat and barley grow beft on the tops of the hills, and even in ftony ground.

Land, in the immediate vicinity of Sunbury, fells from êghteen to twenty-three pounds an acre Building lots of one quarter or haif an acre, in Northumberland or Sunbury, from one handred to two hundred dollars each. Land, a few miles diftance, uncleared, twenty-two to thirty fhillings an acre. Land, with a log-cabin, a $\log$-barn, 'and about one-fourth improved, i. e. the trees cut down, and the underwood grubbed up, about two pounds five fhillings or two pounds ten fhillings an acre.

Two years ago, the land on which the town of Northumberland ftands, is faid to have been offered to fale by the proprietor for two thoufand pounds: he has fince refufed ten thoufand pounds. for it.

In i793, the eftate of the late Lord Sterling was offered for fale at feven pounds ten fhillings an acre, which we apprehend to be the general price of cultivated land, in tolerable fituations all through this State. Of uncultivated land there is very little. The expenfe of travelling between Philadelphia and New-York, both as: to carriages ánd as to living, is about one-third cheaper than between the metropolis and anyt of the great towns in England.

At New-York, you pay at the Tontine coffee-houfe eight dollars a week for board and lodging, wirre excepted : in the former refpect perfons are much better provided than in any place in England, where they pay only the fame price. The advantage in point of cheapnefs, for equal accommodations at an inn, is at leaft one-third in favour of New-York, beyond any of the great trading towns of England: board and lodging at private houfes may be had from five to feven dollars a week.

At Albany, board and lodging in a plain family way is half a dollar a day. Butter, eight-pence a lb: ; beef, two-pence three farthings; cheefe, five-pence; pork, two-pence three farthings. An eftate of five hundred acres, two miles from Albany, and four from Troy, part in woodland, fold in November, 1793 , for three thoufand three hundred pounds currency, or eighteen hundred and fifty-fix pounds fterling. For a farm of fixty acres, about feven miles from Albany, the farmer pays twenty-five $\mathbb{k i p p l e s}$, or eighteen bufhels and three quarters of wheat, per annum, as rent.

For a farm, not far from the above, about feven or eight miles from Albany, confifting of one hundred acres of very rich land, long ago cleared, and one hundred acres more not cleared, having a good brick houfe and a commodious barn upon it, the owner in 1793, afked two thoufand pounds.

Prices of provifions hereabout and at Skenectady, which is inhabited chiefly by Dutch, beef, one penny three farthings a lb.; cheefe five-pence; butter eight-pence half-penny; apples one fhilling and five-pence a bufhel; wheat four fhillings and fix-pence ditto.

About ten miles beyond Skenectađy, up the Mohawk river, beef feils at thirteen fhillings antor fix-pence per cwt.; pork, three-pence farthing a lb.; turkeys one flilling and five-pence; geefe, one fhilling and five-pence; fowls, eight-pence half-penny; butter, fix-pence three farthings; falt, eight flillings per bufhel; cheefe, five-pence a lb.; wheat, four fhillings a bufhel; wood, three fhillings and fourpence a cord. Wages of a labourer, one fhilling and fix-pence to two fhillings in fummer, and fix-pence three farthings to one fhilling and three half-pence in winter, per day; carpenters one fhilling and fix-pence ; mafons, two hillings, befides victuals.

The canals intended to go from Skenectady to Albany, and that which will pass the falls of thennerthitiver and connect Saratoga
with Albany, and that which is intended to obviate the little falls of the Mohawk river, are all likely to proceed:

Land at the German flats fells from two pounds fifteen fhillings to eight pounds ten fhillings arbacre. Land higher up toward the Black river, though good, not aboveral dollar.
Land near Hartford in Connecticut, five pounds ten fhillings to eight pounds ten fhillings an acre.
Land upon one of the branches of the Delaware in New-York State, was offered for fale in London, in June 1794 , for nine fhillings an acre.
Land near the Mifhoppen and Tufcorora creeks in Pennfylvania, about eight miles on the average, from the eaft branch of the Sufquehannah, belonging to the perfon who owned the preceding parcel, was offered at the fame time for eight fhillings an acre in London.

The price of two dollars was afked at the fame period and place for land near the Loyalfock, between the eaft and weft branches of Sufquehannah: and the fame for land in Luzerne country upon Lehawannock.
In this State the fettlers are more in the habit of ufing the afhes of their wood to make pot-afh, and diminifh the expenfe of clearing the land, than they are in Pennfylvania or the fouthern States. In July 1 793, hearth afhes fold for fix-pence three farthings a bufhel ; field afhes at five-pence half-penny ; it cofts two pounds four fhillings a ton to make them into pot-afh; five hundred bufhels of hearth, or feven hundred of field afhes, are computed to make a ton of potafh, which at New-York is worth twenty-feven pounds, or one hundred and twenty dollars. But we think this allowance of afhes ha:dly fufficient for the purpofe.
From thefe detached facts, collected from the information of perfons on the fpot, the reader will be enabled to form a general opinion of the probable expenfes of a fettler in the Middle States. It will be obferved in general, that where provifions are cheaper in one fituation than another the advantage is in the expenditure of an income in nearly the fame proportion as the difadvantage to the landholder.

With refpect to the weftern territory, provifions of all kinds, the produce of the country, are exceeding low in their price: but the great diftance renders European commodities proportionably high, in moft inftances European goods will be nearly double the price they are at Philadelphia.

In the towns and villages of Kentucky, the following are the average prices-of fome of the moft material articles: flour is from fix fhillings to nine fhillings per cwt. according to its quality; Indian corn from uine-pence to one fhilling per buifhel; beef, three halfpence to two-pence per lb . ; veal, two-pence half-penny ditto; mitton, three-pence ditto ; which high price is owing to the general defire the farmers have to increafe their focks; pork is from two-pence to two-pence half-penny per lb .; bacon from three-pence half-penny to four-pence ; bacon hams from four-pence to five-pence half-penny ; falt beef, two-pence; hung or dried beef, three-pence. Neats tongues, fix-pence each; ; buffalo ditto, nine-pence ; dunghill fowls, ducks, Mufcovy ditto, geefe, turkeys, Guinea fowls and pigeons, are proportionably cheap; butter is from two-pence half-penny to threepence half-penny per lb.; cheefe from two-pence to three-pence per ditto.
They have a variety of fifi in the rivers, the moft efteemed of which are the perch, trout, buffalo fifh and foft turtle. The perch is in fize from five to twelve pounds, is firm and fat in its feafor, which is from February until July. The trout is caught from eight to thirty pounds weigbt. This fifh is too univerfally known and admired to require any account of its excellence, particularly as the trout in England is the exact mingiture of it. The buffalo fifl is in fize from four to eight pounds, is a very fine fill, but inferior to the two former. But the foft turtle is, perhaps, the moft delicious fim in the world, and amply compenfates for their having no other teftaceous fillh. This turtle is gelatinous, except a fmall fhell upon its back, about the bignefs of the palm of the hand; the weight is from fix to ten pounds.

Moff people make their own fugar ; but when it is fold, the price is from three-pence to four-pence half-penny per pound, according to its finenefs. The bufinefs of fugar refining is only commencing, which, makes it impoffible to fay exactly what will be the general price of loaf or refined fugar; but we conclude it wiltbe proportionably low with raw fugar, as the bulinefs can be carried on in this country at lefs expenfe than in Philadelphia and New-York, where the price of the neceffaries of life is fo much higher. Tea, coffee, chocolate and fpices, are higher here than in Philadelphia. Good green tea is from five fhillings to eight dhillings per pound; imperial or gunpowader, ten fhillings and fix-pence; pearl fioan twelve fhillings to fixteen flillings; good fouchong from
four hillings and fix-pence to feven fhillings per ditto ; bokea from two faillings to three fhillings and fix-pence ; coffee from one finiling and pine-pence to two millings; chocolate from one fialling and fix-pence to one flilling and eight-pence. Spices are at leaf twenty-five per cent. higher than they are at Philadelphia or Baltimore.

In the year 1784, many officers who ferved in the American army during the late war having fettled in this State with their families, and feveral families from England, Philadelphia, New-Jeriey, NewYork and the New-England States, the country foon began to be chequered with genteel perfons, which operated both upon the minds and actions of the back woods peopie, who conftituted the firft enigrants. A tafte for the decorum and elegance of the table was foon cultivated; and the pleafures of the garden were confidered not only as ufeful but amufing. Theie improvements in the comforts of living and manners, have awakened a fenfe of ambition to inftruet their youth in ufeful and accomplifhed arts. Social pleafures are lizewife regarded as the moft ineft:mable of human poffeffions; the genias of friendihip appears to foffer the emanations of virtue, while the cordial rega:d, and fincere defire of pleafing, produces the molt harmonious effects. Sympathy is regarded as the effence of the haman foul, participating of ceiefiial matter, and as a fpark engendered to warm benevolence, and lead to the raptures of love and rational felicity.

With fuch fentiments the amufements of this State flow from the interchange of civilities, and a reciprocal defire of pleafing. That famenefs may not cloy, and make them dull, they vary the fcene as the nature of circumftances will permit: the opening fpring brings with it the profpect of their fummer's labour, and the briHiant fun actively warms into life the vegetable world, which blooms and yields a profufion of aromatic odours: a creation of beauty is now a feaft of joy, and to look for amufements beyond this genial torrent of fweets would be a perverfion of nature, and a facrilege againf heaven.

The feafon of fugar-making occupies the women, whofe mornings are cheered by the modulated butfoonery of the mocking bird, the tuneful fong of the thrufh, and the gaudy plumage of the parroquet. Feftive mirth crowns the evening. The buinefs of the day being over, the men join the women in the fugar groves, where enchantment feems to dwell. The lofty trees ware their fpreading branches
over a green turf, on whofe foft down the mildnefs of the evening: invites the neighbouring youth to fportive play; and while the rural Neftors, with calculating minds, contemplate the boyifh gambols of a growing progeny, they recount the exploits of their early ange, and in their enthufiafm forget there are fuch things as decrepitude and mifery. Perhaps a convivial fong, or a pleafant narration, clofes the fcene.

Rational pleafures meliorate the foul; and by familiarizing man to uncontaminated felicity, fordid avarice and victous habits are deftroyed.

Gardening and fifhing conffitute fome part of the amufements of both fexes. Flowers and their genera form one of the ftudies of the ladies; and the embellifment of their houfes, with thofe which are known to be falutary, conflitute a part of their employment. Domeftic cares and mufic fill up the remainder of the day, and focial vifits without ceremony or form, leave them without ennui or difguft. The young men are too gallant to permit the women to have feparate amufements; and thus it is that even in Kentucky. we find that fuavity and politenefs of manners univerfal, which can only be effected by feminine polif?.

The autumn and winter produces not lefs pleafure. Evening vifits moftly end with dancing by the young people, while the more aged indulge their hilarity, or diffeminate information in the difquifition of politics, or fome ufeful art or fcience.

Such are the amufements of this country, and fuch the mode of living, which have for their bafis hofpitality, and all the variety of good things that a luxuriant foil is capable of producing, without the alloy of contaminating vice and artificial want.

## PREVALENT DISEASES IN THE UNITED STATES.

' All countries have fome peculiar difeafes, arifing fron the climate, maniner of living, occupations, predominant paffions, and other caufes, whofe feparate and combined influence is but imperfectly known. In North-America we may count five :-nervous diforders, rheumatifm, intermitting fevers, lofs of teeth and colds. It is remarkable, that nervous complaints are at prefent more frequent in Europe than they formerly were. They fpring in a great meafure. from the indulgencies of a civilifed life; but in America thefe fiends infeft with lefs difcrimination on the dwellings of induftry and temperance. Proteus-like they affume every fiape, and often baffle the âtention of legiflators, divines', and moral philofophers: we have often witneffed their amazing influence on religious fentiments. When extreme, they derange the whole fyftem, obfcure the inteilects, bewilder the imagination, prevent the natural order and operation of all the paffions; the foul vibrates between apathy and morbid fenfibility; fhe hates when fhe fhould love, and grieves when fhe ought to rejoire; fhe refembles a difordered clock, that after a long filence, chimes till you are tired, and often inftead of one, ftrikes twelve. Thefe extremes are indeed rare, but the more general degrees are ffill analogous, and produce a great fum of evil.

Slight ${ }^{\text {cr }}$ heumatic pains are almoft epidemic in fome feafons of the year. Yet thefe are fcarcely worth mentioning in comparifon to the fevere fits that afflict a great number of perfons, even in the earlier parts of life, growing more frequent and violent with age, not feldom attended with lamenefs, and contraction of limbs.

Fever and ague is here, as in other countries, the plague of marthy and fenny fituations, but what is fingular, it alfo vifits the borders of limpid ftreams. The leffer degree of it, generally called dumb ague, is not rare in the moft falubrious places during the months of September and October. Through all the low countries from north to fouth this difeafe rages in a variety of hideous forms; and chiefly doth the fury quartan with livid hue, haggard looks, and trembling fkeleton fimbs, embitter the life of multitudes: many linger under it for years, and become fo difpirited, as not even to feek any remedy. It is a foul fource of many other difeafes, often terminating in deadly dropfies and confumptions.
Premature lofs of teeth is in many refpects a fevere misfortune. By impairing martication, and confequently digeftion, it difpofes for many diforders. It injures the pronunciation, and is a particular difadvantage in a great republic, where fo many citizens are public feakers; it expofes the mouth and throat to cold, and various accidents; it diminifhes the pleafure of eating, which is a real, though not fublime pleafure of life, and which we have heard fome perfons very emphatically regret. Finally, it is a mortifying ftroke to beauty, and as fuch deeply felt by the fair fex. Indeed, that man muft be a ftoic, who can without pity behold a blooming maiden of eighteen afflicted by this infirmity of old age! This confideration is the more important, as the amiable affections of the human foul are not lefs expreffed by the traits and motions of the lips, than by the beaming eye. We-

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have not mentioned the pains of tooth-ach, becaufe they are not more common or violent in this country than in fome others, where lofs of teeth is rare; many perfons here lofing their teeth without much pain.

The complaint of catching cold is heard almoft every day, and in every company. This extraordinary diforder, little known in lome countries, is alfo very common in England. An eminent phyfician af that country faid, that " colds kill more people than the plague." Irdeed, many fevere diforders originate from it among the Americans, as well as amongft Europeans: it is probably often the fource of the before-mentioned chronic difeafes. When it does not produce fuch effeets, it is nevertheiefs a ferious evil, being attended with lofs of appetite, hoarienefs, fore eve head-ach, pains and frellings in the face, tooth and ear-ach, tineums, liftlefs languor znd leconefs of fpirits: wherefore Shenfone had fome reafon to call this mneafinefs a chacked perfpiration. Great numbers in fome parts of the United States experience more or lefs thete fymptoms, and are in iome degree valetudinarians for one third of the year.

Eminent medical authors have, indeed, treated of thefe diftempers; and fome American phyficians deferve applanfe for their theoretical add practical exertions. Still it is devoutly to be wifhed that thefe Eational evils may draw a more pointed attention; the limits of our defign, however, permit only a few additional remaiks.

Thefe diftempers frequently co-exift in the moft unhealthy parts of the country, and not feldom affict individuals with inited force. Compaffion for fuffering feilow citizens ought in this cafe to animate inveftigation of thofe general and complicated local caufes. The extreme variablenefs of the weather is univerfally deemed a principal and general caule of colds, and of the diforders by them produced; the fall and rife of the thermometer by 20 a 30 degrees within lefs than four and twenty hours, difturbing the ftrongeft confitations, and reining the weak, A moft important defideratum is therefore the art of hardening the bodily fyitem againit thefe violent impreffions; or, in other woids, accommodating it to the climate. The general ftamina of ftrength fupport it under the exceffes of both coid and heat ; the latter is, hawever, the moft oppreffive, as we can lefs elude it by artificial conveniencies. The Americans fuffer, efpecially during the fummer four, till 6 a 8 , critical extremes, when the thermometer after 86 a 92 degrees, falls fuddenly to 60 . Could means be found to blunt thefe attacks on the human conftitution,
they would fave multitudes from death and lingering difeafes. Some: times this crifis happens as late as medium September, and is in a few days fucceeded by the autumnal frofts; in fuch cafe weak perfons receive a fhock, from which they cannot recover during the autumn, and which aggravate the maladies of the winter, efpecially when it is early and rigorous.
Searching for general caufes of the beforementioned diftempers in the popular diet, the following circumftances fhould be examined: exceffive ufe of animal food, efpecially pork; the common drink of inferior fpirituous liquors, both foreign and home made, not to mention a too frequent intemperance even in the beft kinds; the conftant ufe of tea among the fair fex; drank generally very bot and ftrong, and often by the pooreft claffes, of a bad quality.

In the general modes of drefs we plainly difcern thefe defects :the tight-bodied clothes, worn by both fexess. increafe the heat of a fultry fummer, the clofe lacing and cumberfome head-dreffes of the ladies are efpecially injurious to health. The winter cloathing is too thin for the climates of the northern and middle States, which is for feveral months at times equally cold with the north of Europe. Few perfons fufficiently preferve their feet from the baneful dampnefs of the 17 uih occafioned by the frequent viciffitudes of hard frofts and heavy rains during the winter; women generally wear ftoff fhoes: the American leather, though otherwife good, is very fpongy, a defect owing to the precipitate procefs of tanning. Nor does either fex guard the head againft the piercing north-weft wind, which is general for five or fix months: on journeys efpecially, the men fhould exchange their hats for caps that cover the ears and cheeks.

In the modes of lodging thefe improprieties are obfervable; the poorer, or more indolent people, efpecially in the lefs improved parts of the country; frequently dwell in houfes that are open to the driving fnow and chilling blaft: good houfes often want clofe doors; a chafm of fix or eight inches near the floor admits a ftrong current of cold air, which fenfibly affects the legs. Such houfes canno be fufficiently warmed by the common fire places; hence the frequent complaint, that the fore part of the body is almoft roafted, while the back is freezing; a fituation very unnatural, productive of rheumatifm and other diftempers.' The larger towns of North-America have, with their fpacious frreets, a number of narrow alleys, which are peculiarly detrimental in a fultry climate, and in co-operation with Vos. III.
the flovenly habits of their poorer inmates, are nurferies of difeafe.
Among the general cuftoms which may influence health, the moft ftriking is an exceffive, and in fome cafes an ill-judged cleanlinefs: the continual wafhing of houfes, efpecially in the cold feafon, has, we are confident, coft the lives of many eftimable women, and entailed painful difeafes on their families.
In the bufinefs of life we often remark a very irregular application; indolencel fueceeded by hurry and intenfe fatigue. This muft particularly injure hufbandmen, as the neglect of a day may damage a precious crop, if it is not compenfated by exertions, which in the fultry heat of fummer are very trying to the frrongeft conftitutions.
As to nervous diforders, philanthropy compels us to remark, that, befides their general connection with a figkly conflitution, they have in a great meafure originated from two fingular caufes. One is the convulfion of public affairs during and for fome time after the war, which occafioned many and great domeftic diffreffes. The natural events of the war are univerfally known, and nümbers of virtuous citizens alfo feel the dire effects of the fucceeding anarchy, efpecially in the lofs of property.* The operations of this caufe are, however, continually, leffened by time that cures our griefs, or buries them in the grave; and fuch evils-will, under Providence, be for ever prevented by the new confederation of the United States. The other caufe is that gloomy fuperfition diffeminated by ignorant, illiberal preacherss, the

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 bane of focial joy, of real virtue, and of a manly fpirit. $\dot{\dagger}$ This.

[^53]phantom of darknefs will be'difpelled by the rays of fcience, and the. bright charms of rifing civilization.*

GENERAL OBSERVATIONS ON TEE NATURAE PRODUCE AND RURAL ECONOMY OF THE UNITED STATES, \&C.
The following obfervations and remarks are made with a particular reference to thofe who may adopt the farming bufinefs, and of courfe fix their refidence at a diftance from cities and towns. The United States, if they are truly wife, will continue to give every poffible en couragement to agriculture ; and though it is certainly their wifdom to purfue a mànufacturing fyftem, yet it would be highly injurious for them to give it a preference ; indeed, their great object fhould be to make commerce and manufactures fubfervient to the caufe of agriculture, and to make the latter the bafis of the former. To do otherwife, would be perverting the order of nature. Agriculture has made a wonderful progrefs in feveral countries, fince it became the bufinefs and favourite amufement of philofophers and men of talte; and the American farmer may reap great advantage from the many excellent writings on this fubject, but much improvement is yet wanting in every part of this noble fcience ; befides, their local circumftances require in fome cafes peculiar methods. The United States extend through feveral climates, and the general irregularity of the feafons mingles the diverfity of climate in every State ; Pennfylvania, for inftance, has often within two or three months the climates of Sweden, England, and Italy. This points out the propriety of adopting fome practices from different countries, and eftab-- lifhing others as their own.

As meiz of property and fcience have embraced the occupation of farmers in America, and as a majority of the Houfe of Reprefentatives, if not of the Senate, are of this clafs of men, as well as the prefident, we nagy reafonably expect that every attention will be paid to a fubject fo important in itfelf; and whereon fo much of the happinefs of America depends. Before, however, we offer any obfervations on the theory or practice of American farming, we fhall endeavour to give as full and comprehenfive an account as our plan will admit, of the vegetable productions of the United States; however,

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as few perfons in the United States have fludied natural hiftory as a
fcience, the beft information on this fubject muft be very imperfect; the following we truft will, however, be found as complete as any that is at prefent extant.

## FOREST TREES.

$E_{\text {LM, }}$ ulmus Americana. Of this tree there is but one fpecies, of which there are two varieties, the white and the red. The inner rind of both is ftringy and tough, and is frequently ufed for the bottoms of chairs, and for bed cords. The wood is not eafily fplit, and therefore ferves for the naves of wheels. The bark of the white elm is ufed medicinally for the gravel. The European ELM, ulmus campeffris, is fo far naturalized as to propagate itfelf in copies.

SAssafras, laurus fafafras, is commonly found in moift land, It does not, in this fate, grow. to a large fize. Its roots, bark and leaves have an aromatic fmell. It affords a valuable ingredient for beer as well as for medicinal purpofes. The wood makes handfome bedfteads, and it is faid that bugs will not be found in them for feveral years. The spice wood, laurus benzoin, or as it is commonly called fever bush, is another fpecies of the laurus, common in New-Hampfhire: it is more aromatic than the faffafras. In the weftern country, its fruit and bark are ufed as a fubititute

Wild cherry. Of this they have many fecies, but they have
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the o㫊 onc feveral years paft it has been injured by a beetle infect which
bores a hole through its trunk. Many trees have been entirely killed, and this circumftance has proved a difcouragement to their propagation.

Birch. Of this they have four fpecies. I. White, betula alba The bark of this tree is a fubftance of a fingular kind, and is perhaps the only bark which is lefs liabld to rot than the wood which it inclofes. The whole interior fubftance of a fallen tree is frequently found rotten, whilft the bark remains found. This bark is compofed of feveral lamina, eafily feparable, of a firm confiftence, thin, flexible, foft and fmooth: it may be written upon like paper : it is very inflammable, emitting a vivid flame and a very denfe, black fmoke, which might eafily be collected like lamp black. Of this bark the Indians formed difhes, boxes, and light portable canoes, which they fewed together with fiender but tough filaments of the roots of fpruce and cedar, cementing the joints with turgentine. 2. BLack, betula nigra. The heart of this tree is of a beautiful brown, and is frequently fplit and turned: it makes handfome bedfteads, chairs, and tables. Much of it is exported to Europe. 3. Red or yellow betula lenta. This is chiefly ufed for fewel, and is much efteemed. 4. Alder, betula alnus. Its bark is much employed in dying 2 dark brown. The wood, when of a proper fize, makes excellent charcoal. It is common in fwamps and by the fide of rivers and brooks. ${ }^{7}$

Oak. Of this they have four fpecies. 1. Black, quercus nigra. The inner bark is ufed for tanning; the timber for the keels of mips. 2. RED, quercus rubra. Of this fpecies there are three varieties. I. The red, which grows fometimes on high and dry land, but delights in a moit foil, and is generally found on the declivities of hills and borders of fwamps. The wood of this tree is eafily riven, and makes excellent ftaves for molaffes and for dry cafks. 2. The fivamp oak, which is found in low wet places. It is poffeffed of greater elafticity than any other oak. Splints of this wood have been fubflituted for whalebone. 3. Tellow, which grows on hills and dry ridges of land, makes the beft of pipe ftaves and fhip timber.* 3. White, quercus alba. 4. SHRUb, or Ground oak, quercus pumila. It is found on

[^55] nidus of an infect, and has been ufed as an ingredient in writing ink. There is another oak, called the chefnut, or new-found oak; but whether it be of a different fpecies, or a variety of either fpecies above-mentioned, has not been determined. 5. Chesnut oak, guercus prinus. Whether this is a different fpecies, or only a variety of either of the fpecies before mentioned, we believe is not yet determined. 6. Live oak, quereus Virginiana. Black jack oak, quercus aquatica. The two latter are peculiar to the fouthern States.
Wainut. The American fpecies of this genus have been confounded by botanical writers. There are at leaft three in New-Hampflire. 1. White, or round nut hiccory, juglans alba. Its fap is fweet, but does not flow freely. Its wood is fmooth and tough, and is much ufed for gun-ftocks, axe handies, and walking fticks. 2. Shag fark, juglans cineria ?* The wood of this tree is not fo valuable as the white, but the fruit is preferable, being larger, and having a fofter fhell: - 3 . Oil nut, or butter NUT. This fpecies has been called by fome authors, juglans alba, and by others, juglans nigra. It differs fpecifically from both, and therefore Dr. Cutler has given it the diftinguifhing name of juglans catbartica, expreffive of the peculiar property of its bark, the extract of which is one of the beft cathartics in the materia medica. It neither produces gripings, nor leaves the patient coftive, and may be made efficacious, without hazard, by increafing the dofe. Its operation is kind and fafe, even in the moft delicate conftitutions. ${ }^{\circ}$ It is an excellent family medicine, is well adapted to hofpitals, navies, and armies. It was much ufed by the military phyficians in the late war, and it may become a valuable article of exportation. It is faid to be one of the beft antidotes againft the bite of the rattlefnake. The fruit of this tree, when gathered young, in the beginning of July, makes an excellent pickle; when ripe, it is a fattening food for fwine: its fhell is black, hard and rough : its kernel contains a large quantity of a rich fweet oil $: \dot{\dagger}$ its wood makes good fencing ftuff; and
₹ * " I am uncertain whether this be the cineria of authors, and therefore have added $\boldsymbol{u}$ the mark of interrogation. If it be not the cineria (to which the characters pretty "( well agree) it has no fpecific name."

+ In the fouthern and weftern parts of the United States, this tree is found in very grear abundance. The Indians preferved the oil which they extracted from the nut. Of this we have an early teftimony in the journal of Ferdinando de Soto, A. D. 15400 When he came to Chiaha, fituate near the Apalachian mountains, about the latitude of
its bark, befides the medicinai virtues which it poffeffes, has a quality of dying feveral fhades of grey and black.

Chesnut, fagus caftanea, is chiefly ufed for fencing; it is ftraight, coarfe grained, eafily riven and very durable : it is fometimes flit into ftaves and heading for dry cafks.

Beach, fagus fylvatica. Of this there are three varieties; the white and the red are ufed as fewel; the black is fmall and tough, and is ufed only for withes and fwitches.

Hornbeam, carpinus betulus, is a fmall but tough tree, and is ufed only for levers, hand fikes and ftakes.

Bution wood, platanus occidentalis, is a large tree, but as tough as the hornbeam : it is ufed for windlaffes, wheels and blocks.

Pine, pinuis. Of this genus they have at leaft feven fpecies. I. The White pine, pinus ftrobus, is undoubtedly the prince of the American foreft in fize, age, and majefty of appearance. More of this fpecies have been produced in New-Hampfhire, and the eaftern counties of Maffachufetts, than in all America befides. Thefe trees have a very thin fap, and are diftinguifhed by the name of maft pine from the fucceeding growth of the fame fpecies, which are called faplings. The bloffom of this and other pines appear about the middle of June; its farina is of a bright yellow, and fo fubtil that it is exhaled with vapour from the earth, aícends into the clouds and falls with rain, forming a yellow fcum on the furface of the water, which the ignorant erroneoully call fulphur, from the fimilarity of its colour.

When a maft tree is to be felled, müch preparation is neceffary. So tall a ftick, without any limbs neărer the ground than eighty or a hundred feet, is in great danger of breaking in the fall. To prevent this, the workmen have a contrivance which they call bedding the tree, which is thus executed. They know in what direction the tree will fall, and they cut down a number of fmaller trees which grow in that direction; or if there be none, they draw others to the fpot,' and place them fo that the falling tree may lodge on their branches; which breaking or yielding under its preffure, render its fall eafy and fafe. A time of deep fnow is the moft favourable feafon, as the rocks are then covered, and a natural bed is formed to receive the tree.

34 r, he 66 found great ftore of oil of walnuts, clear as butter, and of good tafte." $\boldsymbol{P} u r c h a s$, vol. v. p. 1539. The Indians of New-England extractedian oil from acorns, by boiling them in water $w$ th afhes of punk, or the rotten heart of maple.

When

When fallen it is examined, and if to appearance it be found, it is cut in the proportion of three feet in length to every inch of its diad meter, for a maft; but if intended for a bowfprit or a yard, it is cut fhorter: if it be not found throughout, or if it break in falling, it is cut into logs for the faw mill.
When a maft is to be drawn, as its length will not admit of its paffing in-a-crooked road, a ftraight path is cut and cleared for it through the woods. If it be cut in the neighbourhood of a large river, it is drawn to the bank and rolled into the water, or in the winter it is laid on the ice to be floated away at the breaking up of the river in the fpring. From other fituations mafts are now conveyed twenty, thirty or forty miles to the landing-places, at the head of the tide, and as the diftance has increafed, more fafe and eafy modes of conveyance have been invented. Formerly, if drawn on wheels, the maft was raifed by levers, and hung by chains under the axle. To this caife it was neceffary to ufe very ftrong and heavy chains, and wheels of fixteen or eighteen feet in diamieter, that the maft, in paffing, might be cleared from the ground, which was ofteri encumbered with rocks and flumps. Now, the common wheels and chains are, ured, and the largeft ftick, by a very eafy operation, is raifed on the axle. To perform this, the wheels being brought near to it, are canted; the axte being fet in a perpendicular pofition, one wheel on the ground and the other aloft; the maft is then rolled over the rim and fookes of the lower wheel, and faftened to the axte; and when it is thus fixed, a chain, which is previoutly made faft to the oppofite lide of the upper wheel, is hooked to-a yoke of oxen, who, by a jerk, bring down the upper and raife the lower wheel, and thrus both are brought into their proper poftions with the maft mounted on the axle: They ufe two pairs of wheels, one at each end of the maft; by which means, it $\cdot$ is not galled by friction on the ground, and the draught is rendered much eafier for the cattle.

When a maft is to be drawn on the fnow, one end is placed on a nled, fhorter, but hiyher than the common fort, and reftson a flrong block, which is laid acrofs the middle of the fled. Formerly, the buttend was placed foremoft, and faftened by chains to the bars of The fled, which was attended by this ineonvenience; that in fridelong ground, the ftick by its rofling would overfet the fled, and the drivers had much difficulty either to prevent or remedy this difafter, by the help of levers and ropes. The invention of the fwivel-chain prectades this difficulty. One part of this chain is faftened to the
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tongue of the fled, and the other to the fmalleft end of the maft, by means of a circular groove cut in it; one of the intermediate links is a fwivel, which, by its eafy turning, allows the fick to roil from fide to fide, without overturning the fled. In defeending a long and fteep hill, they have a contrivance to prevent the load from making too rapid a defcent. Some of the cattle are placed behind it; a chain which is attached to their yokes is brought forward and faftened to the hinder end of the load, and the refiftance which is made by thefe cattle checks the defcent. This operation is called tailing. The moft dangerous circumflance is the paffing over the top of a fharp hill, by which means the oxen which are neareft to the tongue are fometimes furpended, till the foremoft cattie can draw the maft fo far over the hill, as to give them opportunity to recover the ground. In this cafe the drivers are obliged to ufe much judgment and care, to keep the cattle from being killed. There is no other way to prevent this inconvenience than to level the roads.

The beft white pine trees are fold for maifs, bowfprits and yards; for large fhips.* Thofe of an inferior fize, partly unfound, crooked

* Douglafs; vol. ii. p. 53, foeaks of a white pine, cut near Dunftable in 1736 , which was "ffraight and found, feven feet eight inches in diameter; at the butt end.". He alfo fays, that when ' Colonel Partridge' (formerly Lieutenant-Governor of NewHẩmphire)' had the mât contract, he fent home a few of thirtyeight inches, and two of forty-two incties.;
Mr. Belknap obtained from the books or the late contractor, Mark Hunking Wentworth, Efq. deceafed, the following account of the fize and value of fuch ficks as he fent to England for the ufe of the navy.

| Mafts. | Yards. | Bowfiprits. |
| :---: | :---: | :---: |
| Diameter <br> in inches.$\quad$Sterling. <br> value. | Diameter <br> in inches. Sterling <br> value. | Diameter <br> in inches. Sterling <br> value |
| $\begin{array}{llll} & & \text { f. } & 5 \\ 25 & 13 & 8 \\ 26 & 16 & 0 \\ 27 & 18 & 0 \\ 28 & & 23 & 0 \\ 29 & 28 & 0 \\ 30 & 35 & 10 \\ 31 & 44 & 0 \\ 32 & 56 & 0 \\ 33 & 70 & 0 \\ 34 & 90 & 0\end{array}$ | $\begin{array}{crrr} & f & s \\ 15 & 0 & 0 \\ 16 & 0 & 0 \\ 16 & 6 & 10 \\ 17 & 0 \\ 18 & 9 & 0 \\ 19 & 11 & 4 \\ 20 & 14 & 10 \\ 21 & 18 & 10 \\ 22 & 21 & 0 \\ 23 & 25 & 10 \\ 24 & 32 & 0\end{array}$ |  E s. <br> 25 2 10 <br> 26 3 0 <br> 27 3 14 <br> 28 8 2 <br> 29 15 0 <br> 30 21 0 <br> 31 26 0 <br> 32 29 0 <br> 33 32 0 <br> 34 40 0 <br> 35 42 10 <br> 36 45 0 <br> 37 52 10 |

N. B. It muft be obferved, that all thefe were hewn into the pioper flape before she final dimenfions yere taken, which determined their value.

Vor, III.
or broken in falling, are either fawn into planks and boards, of formed into canoes, or cut into bolts for the ufe of coopers, or fplit and fhaved into clapboards and hingles. Boards of this wood are much ufed for wainfoting and cabinet work; it is of fmooth grait, and when free from knots, does no injury to the tools of the workmen ; but the foftnefs of its texture fubjects it to fhrink and fwell with the weather. The fapling pine, though of the fame fpecies, is not fo firm and fmooth as the veteran pine of the foreft, and is more fenfibly affected by the weather.

The ftumps and roots of the maft pine are very durable. It is a common faying, that " no man ever cut down a pine, and lived " to fee the ftump rotten." After many years, when the roots have been loofened by the frof, they are, with much labour, cut and dug out of the ground, and being turned up edgeway, are fet for fences to fields, in which fate they have been known to remain found for half a century. A collection of thefe roots would make mn impenetrable abbatis, which nothing but fire could eafily deftroy.

In
bc
te T a conical pile, and covered on every fide with fods, a hole being left open at the top, where the pile was fet on fire. The confined heat
melted the refinous juices of the wood, whigh flowed out at the bottom into the circular trench, and was conducted, by other gutters, to holes in the earth, in which were fet barrels to receive it. Turpentine is collected from every fpecies of the pine, ty boxing the trees; that from the white pine is the pureft; it fometimes difilis from the tree in beautifully tranfparent drops.
4. The larch, pinus larix, is the only tree of the terebinthine quality which fleds its leaves in autumn. Its turpentine is faid to be the fame with the Burgundy pitch.
5. The fir, pinus balfamea, yields a fingbalfam, which is contained in fmall blifters on the exterior furface of its bark. This balfam is ufed both as an external and intetnal medicine. The wood is coarfer and more brittle than the pine, and is feldom either hewn or fawn.
6. Spruce, pinus Canaden/s; of this they have two varieties, the white and the black. The subite fpruce is tall and flender, its grain is twifting, and when ftripped of its bark it will crack in a warm fun; it is the worft wood for fewel, becaufe of its continual fnapping; in this refpect it exceeds hemlock and chefnut, both which are remarkable for the fame ill quality; it is fometimes formed into cars for large boats, but is inferior to aflh; it is often ufed for fpars, for fencing ftuff and for fcaffolding; for all which purpofes its form and texture render it very convenient, as it is ftraight and tough, and may be had of any fize from two inches to two feet in diameter. The black fpruce is ufed only for beer; the young twigs of it are boiled till the bark may eafily be frripped from the wood, and being fweetened with molaffes, make one of the moft pleafant and wholefome beverages which nature affords: of this fpruce is made the effence, which is as well known in Europe as in America.
7. The hemlock, pinus abies, is, in flature, the next tree to the maft pine; it grows largeft in fwampy land, and is very ftraight; its grain is coarfe, and is not eafily fplit or hewn, but is fawed into planks, joifts and laths: its chief excellence in building is, that it holds a nail exceedingly well; it tiakes good flooring for bridges and barns, and the round timber is very durable in wharfs and dams: the bark is excellent for tanning leatber. The balfam of the hemlock is ufed medicinally, but it cannot be collected in any great quantities.
White cedar, or arbor vite, tjuja occidentalis.
Juniper, or red cedar, juniperus Virginiana, it produces the juniper berry.

The white cedar of the fouthern States, cupreffus tbyoides, is a very different tree from the white cedar of the northern States; but the red cedar is the fame in all the States; it is a juniper, and is a fpecies of that in Europe which produces the juniper berries: the wood of the red cedar is more durable, when fet in the earth, than any other wood growing in America.

They have another fpecies of juniper, juniperus fabina, which does not rife more than eighteen inches from the ground; but the branches extend horizontally reveral yards, and form, in open paftures, an extenfive bed of evergreen : the leaves are mixed with oats, and given to horfes to deftroy the worms, which infeft their bowels.

Cypress, cupreffus difticba, found only in the fouthern States, ${ }^{\circ}$ ufed for fhingles and other purpofes, grows in fwamps and very large.

White willow, falix alba, is originally an exotic, but now well naturalifed and much propagated. "The bark of this tree is ufed as a fubftitute for the cortex Peruviana,"? or Peruvian bark.

Swamp willow, falix; this is the firf tree that fhows its bloffoms in the fpring; and in fome feafons its white fowers exhibit a delightful appearance, when all the neighbouring thees remain in their wintry hue.

Popiar or aspen, populus iremuta. This tree is more frequently found in open or clear land than in thick woods; it is of quick growth; the wood is white, foft and fmooth; it is ufed for lafts and and heels of fhoes, and for fome kinds of turned work.

Biack foplar, or balsam tree. This is a beautiful foreft tree, of a large fize and quick growth, very proper for walks and thades; its buds, in the fpring, are full of a rich balfam, refembling the balfam of Peru: as the buds expand the balfam difappears.

Of he maple they have three fpecies: r. The white, acer negundo; the wrood of this tree, efpecially that which is curled in its grain, is much ufedin cabinet work; it is from and fmooth; it takes a fine polifh, and may be ftained of the colour of black walnut or mahogany. 2. The RED, acer rubrum, grows in fwamps, and is fit only for fuel. 3 . The elack or rock maple exceeds the others in this refpect, being of a very clofe texture, hard and heavy, even when perfectly dry. But the grand excellency of this tree is the faccharine quality of its fap, whici has obtained for it ghe name of SUGAR MAPLE, acer faccbarinum:

Of ash they haveawo fpecies. x. The white ash, fraxinus excelfor; this, in good land, grows to the fize of three feet in diameter; it is very tall, ftraight and tough; its leaves and bark are an antidote to the venom of the rattle-fnake; the wood is eafly riven, and makes durable rails for fences; it is alfo formed into oars and handfpikes; and ferves for the frames of ploughs, carts, fleighs and riding carriages, and for the handles of many ufeful tools in agricultural and mechanical employments. 2. The other fpecies is black asi, fraxinus Americana, of which the red and yeliow are varieties. Splints of the wood of afh are obtained by pounding it with a maul, and are employed in making balkets and brooms: this knowledge was probably derived from the Indians. The roots of yellow afh are ufed by turners for the making of plates and bowls.
After going through the catalogue of foreft trees, it may be proper to obferve, that all woods which grow on high land are more firm and folid, and better for timber or fuel, than thofe which grow in fwamps: the fame difference may generally be obferved between thofe in the open grounds, and thofe in the thick fhade in the foreft. The pine is an exception to this remark; but whether the immenfe age or fuperior flature of the foreft pine be the caufes which render it more firm than that which is found in the paftures, cannot at prefent be afcertained.

From feveral experiments made by the Count de Buffon, it appears, that the wood of trees, ftripped of their bark in the fpring, and left to dry ftanding till they are dead, is harder, heavier and ftronger, more fond and durable, than that of trees felled in their bark; and that the fappy part of wood without bark is not only ftronger than the common, but much more fo than the heart of wood in bark, though lefs heavy: the phyfical caufe of this augmentation of ffrengtirand folidity he thus explains: "Trees increafec in fize by additional coats of new wood, which is formed from the running fap between the bark and the old wood. Trees ftripped of their bark form none of thefe new coats, and though they live after the bark is taken off they do not grow. The fubflance deftined to form the new wood, finding itfelf fopped and obliged to fix in the yoid places both of the fap and heart, augments the folidity and confequently the firength of the wood."*

[^56]Befide the immonfe quaitity of living wood with which the foref abounds, nature hath provided an ample ftore of that foffil, ligneous fubftance, called peat. It appears to be formed of the deciduous parts of trees and flarubs, preferved in a peculiar manner in the earth; it is ufually found in fwamps between or under hills, where it has been accumulating for many ages; the decayed vegetation of one period having ferved as a foil in which another growth has taker root and come to maturity. In the town of Dover, in New-Hampfire, are two fwamps, which, within the laft twenty-five years, have been cleared of the ftumps and roots of the lateft growth, which were pine and hemlock. In digging them up another tier of ftumps was found cnder them, the roots of which were found; and in fome inftances a third fump appeared under the fecond. In fuch fwamps is found the peat, in which the fhape of twigs, bark and leaves, is very apparent, Gut on preffure it is confolidated into a foft fatty fubfance: this being dug in fíits of a proper fize, and dried, becomes valuable fuel; of which, though at prefent little ufe is made, yet pofferity will doubtlefs reap the benefit.*

[^57]FLOWERING TREES, SHRUBS, \& $C$.
Globe flower, . . Cephalảnthus occidentalis,
Pigeonberry, . . Ciffus ficyoides,
Virginian dogwood, . Cornus florida,
Conel, . . Cornus Canadenfis,
Red-flowered honeyfuckle Azalea nudifiora,
White American honeyfuckle
American tea
Cherry honeyfuckle
Virginia fcarlet honeyfuckle,
Dwarf cherry honeyfuckle, .
Evergreen fpindle tree,
Virginian itea, Stag's horn fumach,

Azalea vifcofa,
Ceanothus Americanus,
Lonicera diervilla,
Lonicera Virginiana, Lonicera Canadenfis, Euonymus Americanius, Itea-Virginica, Black haw, . . Viburnum prunifolium, Blackberried elder . Sambucus nigra, Redberried elder, - Sambucus Canadenfis, Scarlet-flowered horfe chefnut, Judas tree,压culus pavia, Great Laurel, . . Falmia latifolia, Dwarf laurel, - . Kalmia anguftifolia, Thyme-leaved marfh citus, American fenna, Rofe bay tree, . $\quad$ Rhododendrum maximum, White pepper bufh, - Andromeda arborea, Red-bud andromeda, . Ardromeda racemofa, Bog evergreen, . . Andromeda calyculata, Carolina red-bud, - Andromeda nitida, Carolina iron-wcod tree,
zgain where it has been dug out?' One of my neighbours has often told me, that 2 ditch was dug through a meadow in his farm many years ago, where there is a body of peat; that the depth of the ditch exceeded the depth of the peat; and that the peat has pufhed out on both fides fo as nearly to meet in the center, but the fides of the ditch above and below remain much the fame, except fome litete change which the length of time has produced. I have not feen the piace: but were I affured of this fact, I fhould be inclined to believe the fibres to be living vegetables, and the form to be poffeffed of the property of fpar, with regard to the increafe of its bulk; and that thefe two fubitances-weremutually dependent on each other,"

| Carolinian fyrianga, | Philadelphus inodoruss |
| :---: | :---: |
| Sorbus tree, | Sorbus aucuparia; |
| Mountain afh, | Sorbus Americana, |
| Service tree, | Mefpilus Canadenfis, |
| Medlar tree, | Mespilus nivea, |
| Sweet-feented crab apple-tree | Pyrus coronaria, |
| Meadow fiveet, | Spiræa falicifolia, |
| Queen of the meadows, | Spiræa tomentofa, |
| Canadian fpiræa, | Spirxa hypericifolia, |
| Wild rofe, | Rofa Carolina, |
| Pennfylvamian fwamp rofe, | Rofa paluftris, |
| Superb rafpberry, | Rubus odoratus, |
| Carolian Fothergilla, | Fothergilla gardeni, |
| Tulip tree, | Liriodendrum tulipifera, |
| Evergreen tulip tree, | Magnolia grandiflora, |
| Climbing trumpet flower, | Bignonia radicans, |
| Virginian ftewartia, | Stewartia malacodendron, |
| Franklin tree, | Franklinia-alatamaha |
| Locuft tree, | Robinia pfeudo acacia, |
| Rofe-fiowered locuft tree, | Robinia rofea, |
| Stramp willow, | Salix cineria ? |
| Red-flowered maple, | Acer rubrum. |
| Plane-tree, | Plantanus occidentalis, |
| Poplar, | Liriodendron tulipifera, Populus heterophỳlla, |
| Catalpa, | Bignonia catalpa, |
| Umbrella, | Magnolia tripetala, |
| Swamp laurel, | Magnolia glauca, |
| Cucumber-tree, | Magnolia acuminata, |
| Portugal bay, | Laurus indica, |
| Red bay, | Laurus borbonia, |
| Laurel of the weftern country, | Qu. fpecies? |
| Wild pimento, | Laurus benzoin, |
| Saffafras, | Laurus faffafras, |
| Honey-locuft, | Gleditfia, r. 6. |
| Fringe or fnow-drop tree, | Chionanthus Virginica, |
| - Barberry, - - . | Berberis vulgaris, |
| Holly, | Ilex aquifolium; |
| Cockfpur hawthorn, | Cratxgus coccinea, |
| Spindle-tree, | Euonymus Europæus, |



## * Called ivg with us.

$\dagger$ The black currant, ribes nigrum, ${ }^{-}$is a native of the American fwamps, and is much improved by culture; it is not much ufed as food, but is an excellent medicine for a fore mouth and throat. An excellent wine may be made from the fruit; we have drank fome of the age of feven years equal to the beft flavoured port.
$\ddagger$ The wild coosaberrx, ribes groffularia, is very common in the borders of woods, and has been greatly meliorated by cultivation.
§ Of grapes they have two fpecies. The black crape, vittis labrufca, and the FOX GRAPE, vitis vulpina. Of thefe there are feversl varieties. From the fpecimens of foreign grapes, which ripen in their gardens, there is fufficient reafon to believe that the culture of vines, in favourable fituations, might be attended with fucsefs. This opinion is corroborated by the judgment of foreigners occafionally refident in Americae Wine, and in large quantities, has lately been made by the French people at their new fettlement on the Ohio river, from the native grapes, without any kind of cultivation. They collected the grapes promifcuoully from all the varieties growing in that country. By feparating them, wines of different, and no doubt fome of them of a much better quality, might have been made." The native grape is propagated with great eafe; its growth is luxuriant, overipreading the higheft trees in the forefts, and by proper

| Barberry bufh, | Berberis vulgaris, |
| :---: | :---: |
| Whortleberry, | Vaccinium liguftrinum, |
| Ditto, | Vaccinium uliginofum, |
| Blueberry, | Vaccinium corymbofum, |
| White whortleberry, | Vaccinium album,* |
| Indian goofeberry, | Vaccinium frondofum, |
| Long-leaved whortleberry, | Vacciniừm flamineum, |
| Craneberry, | Vaccinium oxycoccos, $\dagger$ |
| Yellow plum, | Prunus Americana, |
| Beach plum, | Prunus maratima, |
| Cherokee plum, | Prunus fylveftris fructu majori, |
| Wild plum, | Prunus fylveftris fructu minoriz |
| Large black cherry, | Prunus nigra, |
| Purple cherry, | Prunus Virginiana, |
| Wild red cherry, | Prunus rubra, |
| Dwarf or choak cherry, | Prunus Canadenfis, |
| Mountain cherry, | Prunus montana, |
| Service-tree, | Merpilus Canadenfis, |
| Brambleberry, | Rubus occidentalis, ${ }_{\ddagger}^{\dagger}$ |

attention would afford an ample fupply of wines in the northern as well as fouthem States. The principal difficulty feems to be the want of a proper knowledge of the procefs in making wine, and preparing it for ufe. As far as poffible ta remedy this ${ }_{1}$ and to render the cultivation of the vine and the making of wines more an object of aitention, we fhall in another part of this work enter more folly into the fubject.

* The Americans have feveral feccies of whortieberry, vaccinium corymbofum, which grow in great abundance, and ferve as wholefome and palatable food; fome of them are dried for winter.
$\dagger$ The craneberry, vaccinium oxycoccos, is a frait peculiar to America. The common fpecies grows on a creeping vine in meadows. The branches of the vine take root at the joints, and overfpread the ground to the extent of an acre. The berries hang on very flenger falks; at firft they are white, but turn red as theyripen, and when full grown are of the fize of a cherry: They yield an agreeable acid juice, and, when fewed and made into a jelly, are extremely cooling in a fever, and a delicious fauce at the table. They may be kept a long time in water, and fuffer no injury from the froft. They are frequently fent abroad, and are highly refrefhing at fea. The beft way to preferve them for long voyages, is to put them up clean aind dry, in bottles clofely corked. There is another ipecies of craneberry, which grows in clufters on a bulh, but it is not folarge nor fo common as the other.
$\ddagger$ The brambfeberry, rubus occidentalis. The running blackberris rubus moluccanus. The UPRIG日t blaczberry, rubüs fruticofus, are alo vety common, efpecially in the newly cleared land, and afford an agreeable refrefhment.

Sawteat blackberry or bumble-


## POISONOUS PLANTS:

The following indigenous vegetable productions, under certain circumftances, operate as poifons; fome of which, however, have been brought into medicinal ufe, and are in repute for the cure of diforders attended with fpafmodic affections. Hemlock, cicuta; the thorn apple, datura firamouium; the henbane, byofyamus niger; and the niget shade, folankm nigrum. Other poifonous plants, are the ivy, bedera-belix; the creeping ivy, or, as it is called by fome, mercury, rbus radicans, the juice of which ftains linen a deep and indelible black; the swamp sumach, rbus toxico dendrum; the Water elder, diburnum opulus; the herb cañistopher, actia fpicata; the stinking snakeweed, clifortia trifoliata; and the white hellebore, veratrum album.

* The common raspaerby, rubus ideus, is found in the moft exuberant plenty in the new plantations, and in the old, by the fides of fields and roads. The superb raspa'erry, rubis Canadenfis, is larger and more delicate. Its bloffom is purple, and its leaves are fometimes a foot in diameter.
+ The strawberry, fragaria vefica, in fome parts of the country, is very luxuriant in new fields and paftures, but it is capable of great improvement by cultivation.
$\ddagger$ The native frawberry is much improved by cultivation, and produces a larget and better-flavoured fruit than the exotic.
$\S$ This is a genuine and diftinet fpecies of the apple; it grows in all parts of North-America which have been explored, from the Athantic as far weft as the Miffirfippi ; its bloffoms are remarkably fragrant; its fruit fmall, poffeffing perhaps of all others the keeneft acid. The European crab is a very different fruit. It makes an excellent vinegar, and the cyder made from it is much admired by thofe who profefs to be connoiffeurs in that article.


## NUTFRUIT.

White oak, : $\quad$ Quercus alba,

Red oak, and féveral other fpecies
with fmaller fruit, Quercus rubra,
Black walnut,
Butternut, or oilnut,
White, or round nut hiccory,
Shag-bark hiccory,
Chefaut, : . .
Chinquipin, or dwarf chefnut,
Beech nut,
Hazlenut, . . Corylus avellana,
Filbert, . . Corylus cornuta.
We may here mention the paccon of Illinois nut,-juglans alba, foliolis lanceolatis, acumisatis, ferratis, tomentofis, fructu minore, ovato, compreffo, vix infculpto, dulci, putamine, tenerrimo.- Yefferforn. This nut is about the fize of a large, long acorn, and of an oval form; the fhell is eafily cracked, and the kernel fhaped like that of a walnut. The trees which bear this fruit grow, naturally, on the Miffiflippi and its branches, Iouth of forty degrees north latitude. They grow well when planted in the fouthern Atlantic States.

## EXOTIC FRUITS.

Of thefe, apples are the moft common in the United States. They grow in the greateft plenty and variety in the eaftern and middle States; and the cyder which is expreffed from them, affords the moft common and wholefome liquor that is drank by the inhabitants.

The other exotic fruits are pears, peaches, quinces, mulberries, plums, cherries, currants, barberries, all of which, except quinces and barberries, they have many feccies and varieties. Thefe, with a few apricots and nectarines, flourifh in the eaftern States, and are in perfection in the middle States. $\dagger$

* The fame, probably, as Clayton's Scaly bark hiccory of Virginis,-juglans alba, cortice Iquamofo.
" + In regarid to tree fruit," fays Dr. Tenny of Exeter, in New-Hampfhire, in a letter to Dr. Belknipp, "fe are in too noxchern a slimate to have it of the firt quality, " with-

The exotic fruits of the fouthern States, befides thofe already mentioned, are figs, oranges, and lemons.

## MEDICINAL PLANTS.

Among the native and uncultivated plants of New-England, the following have been employed for medicinal purpofes:

Water horehound,
Blue flag, : . : Iris Virginica,
Skunk cabbage, - Arum Americanum, Catelb. and Dracontium fetidum, Linn.
Partridge berry,
Great, and marh plantain,
Witch hazel,
Hound's tongue, : . Cynogloffum officinale,
Comfrey, . . Symphytum officin.
Bear's ear fanicle, . Cortufa gmelini,
Appleperu, . . Datura frammonium,
Bitterfweet, . . . Solanum dulca-mare,
Tivertwig, or Amer. mazerion, Celaftrus fcandens, Elm,*
Great laferwort, and wild angelica, Laferpitium trilobum, et latifolium, Angelica, or Amer. mafterwort, Angelica lucida, Water elder, • - Virburnum opulus, Elder, - . Sambucus nigra, Chickweed, - . Alfina media,
Pettimorrel, or life of man, Aralia racemofa,
Sarfaparilla, • . Aralia nudicaulis?
Marh rofemary, . Statice limonium,
Sundew, . . Drofera rotundifoli, Solomon's feal, - Convallaria ftellata ?
Adder's tongue, : Convallaria bifolia,
Unicorn, : .. e. . Aletris farinofa,
Sweet flag, $\because$. Acorus calamus,
"without particular attention. New-York, New-Jerfey; and Pennfylvania, have it " in perfection. As you depart from that tract, either fouthward or northward, it dee " generates. I believe, however, that good fruit might be produced even in Newa « Hamphire, with fuitable attention."

Belknap's Hiffory, N. H. Vol. III. P. I40. *The bark of the fweet-elm is a moft excellent mucilage

Several feecies of dock,
Biftort,
Spice wood, or feverbüfh

| Saffafras, |
| :--- |
| Confumption root, |
| Rheumatifm weed, |
| Moufe ear, |
| Gargit, or fkoke, |
| Evild hyffop, |
| Agrimonys |
| C |

Common avens, or herb bennet,
Water avens, or throat root,
Blood root, or puccoon,
Celandine, . Chelidonium majus;
Yellow water lily, . Nymphæa luten,
Pond lily, . . Nymphæa alba,
Golden thread, or mouth root, Nigella ?
Liverwort, . . . Anemone hepatica,
Crowsfoot, • • - Rananculus Pennfylvania ${ }_{3}$
Germander, : Teucrum Virg.
Catmint, or catnip, - Nepea catarita,
Head Betony, . . Betonica officinalis,
Horfemint, fpearmint, watermint; Mentha fpicata, viridis, aquatica; and pennyroyal,
Ground ivy, or gill go over the

| ground, | Glecoma hederacea, |
| :---: | :---: |
| Hedge nettle, | Stachys fylvatica, |
| Horehound, | Marrubium vulgare, |
| Motherwort, | Leonorus cardiaca, |
| Wild marjorum, | Origanum vulgare, |
| Wild lavender, | Trichoftema? |
| Wood betony, | Pidicularis Canadenfis, |
| Shepherd's purfe, or pouch, | Thalapfpi burfa paftoris, |
| Water creffes, | Sifymbrium nafturtium, |
| Cranes bill, | Geranium macrorhizum, |
| Marf mallow, | Althæa officin. |
| Mallow, | Malva rotundifolia, |
| Succory, | Crepis harbata, |
| Burdock, | Actium lappa, |

Devil's bit, . . Serratula amara, ,

Dragon root,
Stinging nettle,
White walnut, butter nut,


CULTIVATED GRASSES.
All the grafles, cultivated in the middle, and New-England States, are found growing indigenous. It is not improbable, however, that Fome of them may be naturalized exotics. The following are the principal graffes fown in the cultivated ground, or in any way propa. gated for feed and hay :
Herd's grafs, or fox tail, Bfưe grafs, . .

Alopecurus pratenfis,* Many feecies of bent, . Agroftis, Rhode-Ifland bent, Agroftis inierrupta, The fmatl and great Eng. grafs, Wire grafs, Poa trivialis et pratenfis, Poa compreffa, Fowl meadow grafs; . Poa aviaria, fpiculis fubifloris, $f$ Red and white clover, . Trifolium pratenfe et repens.

The graffes of Virginia, according to Mr. Jefferfon, are lucerne, faint foin, burnet, timothy, ray, and orchard grafs, red, white ${ }_{2}$ and yellow clover ; greenfwerd, blue grafs and crab grafs, South of Virginia very little attention is paid to the cultivation of graffes. The winters are fo mild, that the cattle find a tolerable fupply of food in the woods.

## FATIVE GRASSES.

Befides the cultivated graffes, the States of New-England abound with a great variety which are found growing in their native foils and fituations, many of which have not been defcribed by any botanical writers. The fmall experiments which have been made, fufficiently evince that feveral of them make excellent hay. They might be

[^58]greatly improved by cultivation, and are highly worthy the attention of farmers. Thofe which are found moft common are the fol: lowing, viz.
The vernal grafs, .. Anthoxanthum odoratum,
Timothy, or bulbus cat's tail
grafs, . . Pbleum pratenfe,
Several fpecies of panic grafs,
Several fpecies of bent,
Panicum,
Agroftis,
Hair grafs . . . Aira aquatica,
Numerous fpecies of poa-qua-
king grafs, feveral fpecies,
Cock's foot grafs,
Briza,
Millet,
DaEtylis glomerats
Fefcue grafs, many fpecies,
Oat grafs,
Reed grafs, feveral fpecies,
Brome grafs, . . .
Lime gräfs, . . . Elymús hyftrix,
Barley grafs, . . Hordeeff pratenfe,
Dog's, or couch grafs, . Triticun repens,
Many §eecies of rufl grafs, $^{2}$
Jomeus, . .
Numerous fpecies of carex, in
frefh and falt marfhy ground,
Several fpecies of beard grafs,
Soft grafs,
Andropogan,
Holcus lanątus et odoratus.*

## PULSE AND HORTULINE PLANTS AND ROOTS.

Befides thofe tranfplanted from Europe to America, of which they have all the various kinds that Europe produces, the following are natives of this country :
Potatoes, 6 . Solanum tuberofum.
Ground nuts, a fort of potatoe, probably a fpecies, highly relifhed by fome people,
Tobacco, $\qquad$ - . Nicotiana,

Pumpkins, . . . Cucurbita pepo,
Cymlings, . . Cucurbita verrucofa,
Squafhes, - $\quad$ Cucurbito melopépo,
Cantelope melons, beans, peas, hops. Probably others.

[^59]
## CULTIVATED GRAIN.

Indian corn, zea mays, a native grain of North-America. The varieties of this grain, occafioned by a difference in foil, cultivation, and climate, are almoft endlefs.* Winter and fummer rye, fecale cereale, hybernum et vernum, the only fpecies cultivated by the American farmers. The winter rye fucceeds beft in ground newly cleared, but fummer rye is frequently fown in old towns, where the land has been long under cultivation. The winter and fummer rye are the fame fpecies, forming two varieties; but the winter and fummer wheat are two diftinct fpecies. Several £pecies of barley are cultivated ; the moft common is the fix, ranked hordeum hexaftichon; and the two, ranked hordeum diftichon. The wheat principally cultivated are the winter and fummer triticum hybernum et æftivum. Oats, avena fativa. Buck wheat, polygonum fagopirum.

In the fouthern States, as far north as Virginia, urhere the lands are fuitable, befides the grain already mentioned; they cultivate rice. This grain was brought into Carolina firft by Sir Nathaniel Johnfon, in 1688; and afterwards more, and of a different kind, probably variety, was imported a hip from Madagafcar, in 1696 ; till which time it was not much cultivated. It fucceeds well alfo on the Ohio river, where it is planted both on the high and low grounds, and in the fame fields with Indian corn and other grain. A gentleman who had planted it feveral years in his garden, informed Dr . Cutler that it yielded at the rate of eightybufhels an acre. At Marietta, it has anfwered the moft fanguine expectations of the inhabitants, producing equal to any other grain, without being at any time overflowed with water. The doctor himfelf faw it growing in a very flourifhing ftate, on high land, but it had not, at the feafon he faw it, began to bloom. It was faid not to be of the fame fpecies of $\mathrm{C}_{\mathfrak{d}}$ rolina rice, is probably the wild irice, which we have been informed grows in plenty, in fome of the interior parts of North-America, and is the moft valuable of all fpontaneous productions of the country. In
io all the different kinds of Indian corn, botanifts have been able to find but one fpecies. The difference in this genus of plants is probably accidental, owing to the above-mentioned caufes. It is polfible, hoyrever, that among thefe varieties, fpecife characters may yet be found. What is called the fpiked Indian corn, is p.obably only 2 . wariety. The plant commonly known in the fouthern States by the name of Guinez corr, is of the family of graffes, as are rye, wheat, barley; oats, \& cc .

Pennfylvania grows a fort of grain, called by the Germans, fpects, which refembles wheat, and is a very valuable grain.

The above lifts are all of them imperfect, and many of them contain but a fmall proportion in their refpective claffes of the produce of the States; they are, however, all that can be procured till Dr. Cutler and Dr. Mitchell finim the work they have undertaken, and thus bring us better acquainted with the vegetable productions of America.

To the foregoing we fubjoin a catalogue of fuch foreign plants as have not been cultivated, or at moft but partially, in the United States, but which are worthy of being encouraged in America for the purpofes of medicine, agricuiture, and commerce. From a pamphlet by John Ellis, F. R. S. prefented by the Honourable Thomas Penn, Efq. to the American Philofophical Society, through the hands of Samuel Powell, Efq.

Latin Names. | Englifb Names. | Obficruations.

| bia peregrina | Turkey madder |
| :---: | :---: |
| Rubia tincto-- rum | Dyers madder* |
| Quercus fuber | Cork-bearing oak |

eercus agilops $\begin{gathered}\text { Avellanea of va- } \\ \text { lenida oak }\end{gathered}$

Quercus galli-
fera

The firft is fuppofed to be the fame that is now cultivated in Smyrna for a crimfon dye.
Grows in the fouthern parts of France, Spain, and Portugal.
The cups of the acorns, which are very large, and ufed in dying, grow in Greece and Natolia, particularly in the inland of Zia in the Archipelago, where Tournefort faysthey gather in one year 5000 cwt.
Galls from Aleppo and Smyrna. This oak is not yet known in England: the acorns may be brought over in wax, and fent to the fouthern States.
\#This plant is a native of the warmeft parts of Europe, and is better calculated for the climate of the fouthern States than either of Holland or England, where it is cuitivated; but principally in the former, from whence England is chiefly fupplied with this valuable dye. The chemifts fay, and with reaion, that the warmth of the climate exalts the colour. If fo, it may be well worth attention to encourage the planing of fo valuable an article of commerce in a climate and foil that feems fo much berter adapted to it, where the land is cheap; and where vegetation is fo much quicker and more luxuriant $;$ and while they encourage the growth of it, they may_have the advantage of mamufacturing this valuable commodity at home.

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Latin Names.
 torius
Rhamnus catharticus minor Rhamnus faxatilis Olea Europa

| Sefamum orien- |
| :--- |
| tale |
| Goffypium her- |

Oily grain baceum Goffypium hirfutum
Salfola foda
Salfola fativa and chenopodium maritimum
Ceratonia filiqua

## Piftachia vera

Englijh Names.
Safllower

Buckthorn that produce yellow berries of Avignon
Olives of feveral varieties -

Two forts of annual cotton

Thefe kinds of glaffwort for barilla

Locuft tree, or St. John's bread

Piftachia tree

Chio turpentine tree
Maftic tree

Obfervations.
Much ufed in dying, grows in Egypt.
Ufed by painters and dyers; both thefe plants produce berries fit for this parpofe.

For oil ; thefe grow in France, Spain, and Italy. Young plants and ripe fruit of the French and Spanifh forts, may be carried from thence.
Propagated in the Levant for oil, which does not foon grow rancid by keeping.
Both thefe. kinds of annual cotton are yearly fown in Turkey, and would grow well in Georgia, Carolina, Virginia, \&c.
Thefe are fown yearly in fields near the fea in Spain, for making barilla, for foâp, glafs, \&c.

The ${ }^{\wedge}$ pods are excellent food for hard working cattie, and ufed for this purpofe on the fea coaft of Spain, where they are eafily propagated from feeds or cuttings.
They are propagated about Aleppo, where the.female or fruit-bearing ones are ingrafted on ftocks raifed from the nuts.
This kind of turpentine is ufed in medicine.
Gum maftic from the ine of Scio; as this tree, commonly called lentifcus, is doubted to be the genuine maftic tree, feeds of the true kind may be procured from the ine of Scio.

Engil/b Names.

- Styrax officinale

Convolvulus fcammoniz

| Latin Names. |
| :---: |
| Gum ftorax tree |
| Gum fammony |
|  |
| Alexandrian |
| purging fenna |
| True opium |
| poppey |
| Tallow tree of |
| China |

## Obfervations.

This tree grows in Italy, Syria, and India; but the warmer climates yield the beft gum.
Seeds of the plant, from whence this excellent drug is procured, were fent into England from Aleppo, by the late Dr. Alex. Ruffel: it bears the climate very well, and produces feed in hot fummers, but requires the warmer climates of Carolina, Georgiá, \&c. to make the gum refin that flows from it a beneficial article of commerce. It is fo frequently adulterated in Turkey, that, to have it genuine, it is-well worth propagating in the United States.

Papaver fomniferum

Caffia fenna rum


* There is a refinous juice, which by age hardens into a folid brittle refin, of a pungent, warm, balfamic tafte, and very fragrant fmell, not unlike the ftorax calamita, heightened with a little ambergris, which is produced from the Ayrax aceris folio of Ray, or liquidambar ftyracillua of Linnæus, Spec. plant. 1418, which grows in perfection in the Floridas. This, Dr. Lewis, in his Materia Medica, p. 553, fays, might be applied to valuable medicinal purpofes.

The French, in Du Pratz' hiftory of Louifiana, fpeak with rapture of its healing qualities, and the high efteem it is in among the Indians of Florida, on account of its infinite virtues : it is known to the Englifh by the name of the fweet gum tree, and to the French by the name of copalm. This is well worth the atiention of phyficians, as they can have it genuine, whereas the ftorax from the eaft is often adulterated.
$\dagger$ The feed of this fpecies of poppy is recommended by a phyfician of great eminence as proper for the fame purpofes of medicine as fweet almonds are ufed. It is obferved nor to have the leaft degree of a narcotic quality in it.

Rhúme


TO EUROREAN SETTLERS.

| 48 | GENERAL I | FORMATION |
| :---: | :---: | :---: |
| Latin Names. Gardenia Florida | Engliht Names. Umky of the Chinefe | Obfervations. <br> Ufed in dying fcarlet in China. The pulp that furrounds the feeds, gives in warm water a moft excellent yellow colour, inclining to orange. See Philofophical Tranfactions, Vol. lii. p. 654, where there is an exact figure of it. |
| Magnifera Indica | Eaft-India mango tree | This excellent fruit is much efteemed in the Eaft-Indies, and it is faid there is a tree of it now growing in the ifland. of Madeira. By the defcription which Dr. Solander gives of this fruit, at Rio Janeiro, in Brazil, it is not fo good as the Eaft-India fort. |
| Morus papyrifera | Paper mulberry tree | Ufed for making paper in China and Japan. See Kæmpff. Amœnit. p. 467. This has been fome time in the Englifh gardens. |
| Cinchona officinalis | Jefuits bark tree | This grows at Loxa, in the province of Peru ; and could it be obtained fo as to be cultivated in the American States, would be of infinite advantage. |
| Dorfenia contrayerva | Contrayerva root | This grows in New-Spain, Mexico, and Peru. |
| Smilax farfaparilla | Sarfaparilla root | It is brought from the bay of Campeachy, and the gulph of Honduras, where it grows in plenty, and might eafily be propagated is the fouthern States. |
| Copaifera officinalis | Balfam copaiva tree | In Brazil, and Martinico. |
| Toluifera ballamum | Balfam tolu tree | This tree grows near Càrthagena, in - South-America. |
| Hymenea courbaril | The locuif, or gum copal tree for the fineft tranfparent varnifik | This tree is known to yield the true gum copal, and that the difference between this and gum anime, may be owing to foil and heat of climate; it grows wild in the American illands, the Mufquite flore, and in Terra Firma. |


| Latin Names. Jalapinm officinarum | $\begin{array}{\|l} \text { Englifh Names. } \\ \text { True jalap } \end{array}$ | Obfirvations. <br> This plant is fuppofed by fome to be a kind of bindweed or convolvulus, that grows near Mexico; by others it is thought to be a fpecies of Marvel of Peru. As we are uncertain of the genus, it is well worth inquiring into, as a moft ufeful drug, in order to propagate it in the States, particularly the fouthern. |
| :---: | :---: | :---: |
| Bixa orellana | Arnotto; for dying | This grows in all the warm climates of America. The French cultivate it, but what the Spaniards fend is much richer in colour, and more valuable. |
| Mimofa Senegal | Gum Senegal . <br> - tree | This grows in Egypt, and in Senegal. |
| Mimofa Nilotica | Gum arabic | In Egypt, from whence the feeds may be procured. |
| Ficus fycomorus | True fycamore of Zacheus | This is reckoned the moft durable timber known. The repolitories of the mummies found in Egypt are made of this timber. |
| Ficus Carica | Turkey figs | Figs grow in the greateft perfection in Carolina, and would become a valuable trade if they had the method of curing them as in Turkey. |
| Vitis apyrena | Currants, orCorinthian grapes | The cuttings of this vine night be procured from Zant. |
| Fraxinis ornus C | Calabrian manna afh* | This is worth trying in the fouthern colonies, where the heats are violent in the fammer. It is common in Englifh nurfery gardens. |
| Amygdalus communis | et almonds | Thefe would grow to great perfection in the fouthern States. |
| Capparis fpinofa | er tree | This fhrub requires a rocky foil to grow in, as it is found about Marfeilles and Toulon. |

[^60]| 410 | GENERAL INPORMATION |  |
| :---: | :---: | :---: |
| Latin Namas. . Punica granatum* |  |  |
|  | Balauftians orthe bloffoms of the double flowering pcmegranate. | This tree would thrive extremely well in the fouthern States, and yield a profitable article in their bloffoms. Plants of this kind are to be bought from moit Englifh nurferymen. |
| Licheṇ roccella | $\begin{aligned} & \text { Argal, canary- } \\ & \text { weed, or or: } \\ & \text { che!ll } \end{aligned}$ | It is poffible this valuable plant may be found in the American inands, as well as in the Canaries and Cape Verd iflands. |
| Ciftus ladanifera | Gum labdanum | In Spain and the Archipelago. |
| Bubon galbanum | Gum galbanum | In Ethiopia. |
| Paftinaca opopo. nax | Gum opoponax | In Sicily. |
| Amomum cardamomum | Cardamums | In the Eaft-Indies. |
| Curcuma longa | Tume | In the Eaft-Indi |
| Aftragalus tragacantha | Gum tràgacanth, or gum dragon | In the fouth of France and in Sicily. |
| Cutcumis colycinthis | Coloquintida, or bitter apple | In Africa. |
| Gentiana lutea | Gentiañ | In the Alps, Appennines, and Py; renees. To be had of the nurferymen in England. |
| Similax China | China root | In China and in New-Spain |
| Pimpinella anifum | Anife feeds | In Egypt. |
| Gambogia gutta | Gamboge | In the Eaft-Indies. |
| Quercus coccifera | Alkermes oak | About Marfeilles and Toulon. |
| Myrrha offic. | Gum myrrh | In Abyfinia. |
| Benzionum offic. | Güm Benjamin | In Sumatra and Java. |
| Ammoniacum offic. | Gum ammoni-: acum | In Africa. |
| Balfamum Peruүianum | $\begin{aligned} & \text { Natural balfam } \\ & \text { of Peru } \end{aligned}$ | In Pera, |
| Olibanum Thus mafcalum | Frankinçenfe | In the Upper Egypt and interiof parts of Africa. |

* The fingle flowering, or fruit-bearing pomegranate, will afford the moft grateful addition to the fruits of the States, and a valuable medicine. The ripe fruit full of feeds is to be met with at the Englifh fruit Ihops in the winter feafon: from the feeds of fuch

[^61]TO EUROPEAN SETTLERS:

Latin Names
Nux mofchata offic.
Caryophylus aromaticus
Piper nigrum
Garcinia monga ftona

Lechee

Ipecacuanha

Eerula affa fæetida


Tothis catalogue may be added liquorice, faffron, and aloes focotrina, as well as many others of equal importance.

We flall here fubjoin fome directions for carrying over feeds and plants from diftant countries in a fate of vegetation. Many valuable trees and plants grow in diftant countries, as in Europe, and particularly in the northern provinces of China, about the latitude of forty degrees, which would thrive well in North-America, more efpecially in the middle and fouthern States, which lie about the fame latitude. But as the diffance is great, the manner of preferving the feeds properly; fo as to keep *irem in a flate of vegetation, is an affair of confiderable confequence and fome difficulty; the following hints are therefore offered for that purpofe.
In the firft place it ought to be carefully attended to, that the feeds fhould be perfectly ripe when they are gathered; and they fhould be gathered, if poffible, in dry weather; afterwards they fhould be feread thin on paper or matts, in a dry airy room, but not in funfline. The time neceffary for this operation will vary according to the heat of the climate, or feafon of the year, from a fortnight to a month, or perhaps two may be neceffary; the hotter the feafon, the 1 time will fuffice. This is to carry off their fu-
perfluous moifture, which, if confined, would immediately tura to mouldinefs, and end in rottennefs.

As there are two methods that have fucceeded, and put the Americans in poffeffion of feveral young plants of the true tea-tree of China, we flall mention them both, in order to affilt the collector in conveying the feeds of many valuable plants.
The firit is by covering them with bees-wax in the manner explained in Pbil. Tranfact. vol. Ivifi.p. 75.

It principalily confifts in chufing only fuch feeds as are perfectity found and ripe. To proje this, fome of them mutt be cut open to judge what fituation the reft may be in, taking care to lay afide any that are outwardly defective, or marked with the wounds of infects. When a proper choice of them is made, they flould be wiped extremely clean, to prevent any dirt or moifture being inclofed; each feed then flould be rolled up carefuily in a coat of foft beeswax half an inch thick; the deep yellow Englifh bees-wax is the beft. When the number intended to be inclofed are covered, pour fome bees-wax melted into a chip-box of feven inches long, four broad, and three deep, till it is above half full; and juft before it begins to barden, while it is yet fluid, put in the feeds rolled tip in rows till the box is near full; then pour over them fome more wax while it is juft fluid, taking care when it is cold to ftop all the cracks or chinks that may have proceeded from the flrinking of the wax, with fome very foft wax; then put on the cover of the box, and keep it in as cool and airy a place as poffible.

The method of inclofing tea feeds fingly in wax, and bringing them over in that fate, has been practifed for fome time;-but few have fucceeded, owing to the thinnefs of the coat of wax, or putting paper firft round them, or inclofing them too moift.

To this we add a method that promifes fuccefs for carrying plants from different parts. As there is a good deal of difference in climates, it wiil be neceffary to obferse, that plants from warm climates flould be put on board fo as to arrive in warm weather, otherwife they wilk be deftroyed by the cold; and the ever-greens, which are the mof curious, muft be fent in the winter months, while their juices are inactive, fo as to arrive before the heats come on. If the plants fent were planted in pots or boxes, and kept a year, they might be carried over with very little hazard; or ever if they were firft tranfplanted from the woods into a garden, till they had formed roots; they might be fent with much more fafety.

The fize of the boxes that will be mof convenient for flowing them on board merchaut flips, where there is very little room to fpare, flould be three feet long, fifteen inches broad, and from eighteen, inches to two feet decp; according to the fize of the young trees; but the fmalleft will be moft likely to fucceed, provided they are well rooted. There muft be a narrow ledge nailed all round the infide of the tox, within fix inches of the bottom, to faften laths or packthread to form a kind of lattice-work, by which the plants may be the better fecured in their places. If the plants are packed up juft before the flip fails, it will be fo much the better.
When they are dug up, care muft be taken to preferve as much earth as can be about their roots; and if it fliould fall off, it muft be fupplied with more earth, fo as to form a ball about the roots of each plant, which muft be furrounded with wet mofs, and carefully tied about with packthread, to keep the earth about the roots moif; ; perhaps it may be neceffary to inclofe the mofs with fome paper or broad leaves, that the packthread may bind the mofs the clofer. Loamy earth will continue moift the longef. There muft be three inches deep of wet mofs put into the bottom of the box, and the young trees piaced in rows upright clofe to each other, ftuffing wet mofs in the vacancies between them and on the firface; over this leaves fhould be put to keep in the moifiure, and over them the laths are to be fafteneil crois and crofs to the ledges or packitbreats to be laced to and fro, to keep the whole fleady and tight. The lid of the box flould be either nailed down clofe, or may have hinges and a padlock to fecure it from being opened, as may be foend necelfary, with proper directions parked on it to keep the lid uppermoft. There muft be two handles fixed, one at each end, by which raeans there will be lefs danger of difturbing the plants. Near the upper part of the ends of the box there muft be feveral holes bored to give air; or, in making the box, there may be a narrow vacancy left between the boards of one-third of an inch wide, near the top, to let out the foul air; and perhaps it may be neceflary to nail along the upper edge of thefe openings lift, or flips of fail-cloth, to hang over them; to fecure the plants from any fray of the fea; and at the fame tine it will not prevent the air from paffing through. Boxes with plants packed in this manner muft be placed where the air is free, that is,: ort of the way of the fonl air of the fhip's hold.
The following method of preferving feeds from turning rancid. from their long confinement, and the heat of the climates which
they may pafs through, was communicated fome yeyars ago by the celebrated profeffor Linnæus, of Upfal, in Sweden. He advifes, that each fort of feed fhould be put up in reparate papers, with fine fand among them, to abiorb any moifture; dried, loamy or foapy earth may be tried. Thefe papers, he fays, flould be packed clofe in cylindrical glafs, or earthen veffels, and the mouths covered over with a bladder, or ledther tied faft round the rims. He then directs that thefe veffels, with the feeds in them, fhould be put into other reffels, which fhould be fo large, that the inner veffel may be corered on all fides, for the fpace of two inches, with the following mixture of falts. -Half common culinary falt; the other half to confift of two parts of faltpetre, and one part of fal-ammoniac, both reduced to a powder, and all thoroughly mixed together, to be placed about the inner veffel, rather moift than dry. This he calls a refrigeratory, and fays, it will keep the feeds cool, and hinder putrefaction. Perhaps if fmall tight boxes, or cafks or bottles of feeds were inclofed in cafks full of falts, it might be of the fame ufe, provided the falts do not get at the feeds; and as fal-ammoniac maynot be eafily met with, haif common falt, and the other half faltpetre, or common fait alone, might anfwer the fame end. But it would be very neceffary to try both methods, to know whether the latter would anfwer the purpofe of the former, as it would be attended with "inuch lefs trouble, and might prove a ufeful method to feedfmen, in fending feeds to warm climates.

The fmalleft feeds being very liable to lofe their vegetative power by long voyages through warm climates, it may be worth while to try the following experiment upon fuch kinds as are known for certain to be found. Dip fome fquare pieces of coiton cloth in melted wax, and while it is foft and almoft cold, ftrew the furface of each piece over with each fort of fmall feed, then rall them up tight, and inclofe each roll in fome foft bees-wax, wrapping up each of them in a piece of paper, with the name of the feed on it; thefe may be either furrounded as before with falts, or packed without the falts in a box, as is moft convenient.

The feeds of many of the frail fucculent fruits may be carried from very diffant parts, by preffing them together, fqueezing out their watery juices, and drying them in fmall cakes gradually, that they may become hard ; they may be then wrapt up in white writing; paper, not fpongy, as this is apt to aftract and retain moifture; but
"we
-we believe it will be fonnd, that a covering of wax will be better than one of paper.

The Alpine ftrawberry was firf fent to England in a letter from Turin to Henry Baker, Efq. F.R.S. by preffing the pulp with the feeds thin upon paper, and letting it dry before they wers inclofed. The paper mulberry from China was brought to England about the year 1754 much in the fame manner.

Thefe hints may prompt to try the larger fucculent fruits; for inftance, the mangoes, lechees, and others of this kind. If their flefly part, when they are very ripe, was brought to the confiftence of raifins or dried figs, it would keep their kernels plump, and in this ftate they might be better preferved in wax than by any other method yet known. The fame method may be tried for flower feeds and other ornamental plants for gardens, which have been but little attended to in the United States, and which therefore an European fhould furnifh himfelf with if he means to refide in the country part of the Union; the fame attention may be neceflary to fone and kernels of choice European fruits.

## METHOD OP CLEARING AND CULTIVATING NEW LANDS.

Several methods of raifing a crop on new land have been practifed in the New-England States; the eafieft and cheapeft was originally learned of the Indians, who never looked very far forward in their improvements : the method is that of girdling the trees, which is done by making a circular incifion through the bark, and leaving them to die ftanding: athis operation is performed in the fummer, and the ground is fown in Auguf, in general with winter rye, intermixed with grafs. -The next year the trees do not put forth leaves, and the land having yielded a crop becomes fit for pallure. This method, helps poor fettlers a little the firft year; but the inconvenience of it $\dot{\mathrm{s}}$, that if the trees are left ftanding, they are continually breaking and falling with the wind, which endangets the lives of cattle; and the ground being conftantly encumbered by the falling trees, is lefs fit for mowing; fo that if the labour be not effectually done at once, it muft be done in a fucceffion of time.

Some have fuppofed, that the earth, being not at once, but by degrees expofed to the fun, preferves its moifture, and does not become fo hard; but the experience of the beft hufbandmen has exploded this opinion. The more able fort of hulbandmen in the New-England States, therefore, chufe the method of clearing the

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Jand at firf, by cutting down all the trees without exception. The moft eligible time for this operation is the month of June, when the fap is flowing and the leaves are formed on the trees: thefe leaves will not drop from the fallen trees, but remain till the next year, when ${ }_{3}$ ting dry, they help to fpread the fire, which is then fet to the trees. This is done in the firft dry weather of the fucceeding fpring, and generally in May; but if the ground be too dry, the fire will burn deep and greatly injure the foil. There is therefore need of judgment to determine when the wood is dry enough to burn, and the foil wet enough to refilt the action of the fire: much depends on getting what is called a GOOD EUR $N$, to prepare the ground for planting. To infure this, the fallen trees are cut and piled, and the larger the pile the better chance there is for its being well burned. But if the land be intended for pafture only, the trees are cut down, and after the fire has deftroyed the limbs grafs is fown, and the trunks of the trees are left to rot, which, in time, turn to good manure, and the pafture is durable.

Some huibandmen prefer felling trees in the winter, or very early in the fpring, before the fnow is gone. The advantage of this method is, that there are fewer fhoots from the fumps of the felled trees than if they are cut in the fummer; thefe fhoots encumber the ground, and muit be cut out of the way or deftroyed by fire. The difadvantage of cutting trees in the winter is, that they will not dry fo foon, nor burn fo well, as thofe cut in the fummer with the leaves on: befides, the month of June is a time when not onily the trees are eafieft to be cut, but the feed is in the ground, and people can better attend to this labour, than when they are preparing for their fpring work, or have' not finifhed their winter employments: the days too are then at their greateft length, and more labour can be done in the courfe of a day: this labour, however, is often paid far by the acre rather than by the day; and the price of felling an acre is from one to two dollars, according to the number and fize of the trees.*

The burning of trees generally deftroys the limbs and frnaller trunks; the larger logs are left fcorched on the ground, and fometimes ferve to fence the field. After the fire has had its effect, and is fucceeded by rain, then is the time for planting. No plough is ufed, nor is it poffible for one to pafs among the roots and ftumps? but holes are made with a hoe in the loofe foil and afhes, 然 which, the feed being dropped and covered, is left to the prolific hand of

[^62]nature ting $c$ This jagged the ftr feed, $v$ except jures $t$ difappe pigeoni comes top, an Whe fown, $r$ fcatterec rake, c expect : Sometir of rye c which : The firs will rep: for peor of wilde expenfe Many hr them cle numbers fatted for Huibar tilling th and ftirri others fa; grafs; ar cleared, $t$ penfate fc lected, tr before it to plentif run over Vot, II
mature, no other culture being neceffary or practicable, but the cutting of the fireweed, which fpontaneoully grows on all burnt land. This fireweed is an annual plant, with a fucculent ftalk and long jagged leaf; it grows to the height of five or fix feet, according to the ftrength of the afhes: it bears a white flower, and has a winged feed, which is carried every where by the wind, but never vegetates, except on the afhes of burnt wood; it exhaufts the ground, and injures the firft crop, if it be not fubdued, but after the fecond year difappears. About the fecond or third year another weed, called pigeonberry, fucceeds the fireweed, and remains till the grafs overcomes it : it rifes to the height of three feet, fpreads much at the top, and bears bunches of black berries, on which pigeons feed.

When the trees are burnt later in the fummer, wheat or rye is fown, mixed with the feeds of grafs, on the new land; the feed is fcattered on the furface, and raked in with a wooden or iron toothrake, or a hoe. The huibandman knows on what kind of land to expect a crop from this mode of culture, and is feldom difappointed. Sometimes a crop of Indian corn is raifed the firft year, and another of rye or wheat the fecond year, and the land is fown with grafs, which will turn it into pafture or, be fit for mowing, the third year The firft crop in fome land, and the two firft crops in any good land will repay the expenfe of all the labour. It is not an uncommon thing for people, who are ufed to this kind of huibandry; to bring a tract of wildernefs intg grafs for the two firft crops, the owner being at no expenfe but that of felling the trees and purchafing the grafs feed. Many hatbandmen in the old towns buy lots of new land, and get them cleared and brought into grafs in this way, and pafture great numbers of cattle; the feed is excellent, and the cattle are foonfatted for the market.

Hufbandmen differ in their opinions concerning the advantages of tilling their new land the fecond year : fome fuppofe, that mixing and ftirring the earth does it more good than the crop injures it: others fay, that one crop is fufficient before the land is laid down to grafs; and that if it be fown with grain and grafs, as foon as it is cleared, the large crops of grafs which follow will more than compenfate for one crop of grain. When the feeding with grafs is neglected, the ground becomes moffy and hard, and mult be ploughed before it will receive feed. Land thus fown will not produce grafs to plentifully as that which is feeded immediately after the fire has run over it: befides, this neglected land is generally overfpread with
VoL. III. $\quad 3 \mathrm{H} \quad$ cherry
cherry trees, rafpberry bufhes, and other wild growth, to fubdue. which much additional labour is required. In good land, the firt crops of hay are, on an average, a ton to an acre. That land which is intended for mowing, and which takes the common grafs well at firft, is feldom or never ploughed afterward ; but where clover is fown, it muft be ploughed and feeded every fourth or fifth year: good land, thus managed, will average two tons of clover to the acre.

Such is the procefs of clearing and cultivating lands in the NewEngland States, for a further view of the productions of which the reader is referred to the hiftory of thofe States.* A few additional remarks, however, may be neceffary on the fubject of tree fruit. Thefe States are certainly too far north to have it in perfection, i. e. of the firft quality, without particular attention. New-York, NewJerfey and Pennfylvania, have it in perfection. Depart from that tract, either. fouthward or northward, and it degenerates. We believe, however, that good fruit might be produced even in NewHampfhire, with fuitable attention: a proof of this is, that fometimes they have it. In theorizing on the fubject, three things ap. pear to us particularly neceffary, all which are totally neglected by the generality of American huflandmen. The $\operatorname{firf} \neq$, after procuring thrifty young trees of the beft kinds, and grafting fuch as require it, is to chufe a fituation for them, where they may have the advantage of a warm rich foil, and be well fheltered from the chilling blafts of the ocean. The fccond is to keep the trees free from fuperfluous branches, by a frequent ufe of the pruning hook, and the earth always loofe about their roots. The third is to defend the trees from infects, particularly thofe which by feeding on the fruit render it fmall and knotty, as we frequently find apples and pears; or by depofiting their eggs in the embryo, occafion its falling off before it comes to maturity, as is obfervable in the various kinds of plums. But moft of the farmers go on in the path traced out by their anceftors, and are generaily averfe to making experiments, the refult of which is uncertain, or to adopting new modes of hurbandry, the advantages of which are in the fmalleft degree problematical. There are feir cultivators among them who theorize, and ftill fewer who read and think."

* Vol. If.

In the middle ftates when a fettler fixes on a fpot of land, which he ufually buys, paying for it in gales, his firft care is to cut down a few trees to build his log-houfe. A man can cut down and lop from twenty to thirty in a day of the fize proper for the purpofe. Thefe form the walls of the building. In general, the log cabins of this kind are fuch as half a dozen men will eafily finifh in three or four days. Ten guineas worth of labour thus employed will lodge a family quite as comfortable as in the better kind of cottages in England。

He then proceeds to grub the land, i. e. to take up the fmall trees, thoots, and underwood, by the roots : thele are burnt upon the ground. In a general way this may be contracted for at about twenty fhillings an acre. It is generally reckoned to coft ufually five days work of a man to whom, as it is very hard work, the pay is three fhillings a day, finding him in victuals, and allowing him a dram of whifkey morning and evening. The price of this kind of work will eafly be conceived to vary according to circumftances. Where land is heavily timbered with trees of two or three feet diameter, as it is about the heads of the creeks, and on the illands of the Sufquehannah, the underwood is in fmall proportion, but the expenfe of clearing much greater.

The land being grubbed, the trees immediately about the houfe are cut down, and for the prefent another portion is girdled only. This procefs, deftroying the vegetation of the branches, lets in the light and air fufficiently to enfure a crop the next feafon. The trees cut down are fplit into a kind of rail for fences, which are made by laying thefe pieces angular-wife one on the top of another, to the height of fix or feven in number, much in the fame way as the logs of a houfe are laid on each other, but flanting in alternate directions. A poft and rail fence is not thought of till fome years afterwards. In new land, after grubbing and girdling, i. e. taking up the underwood, and cutting through the bark of the larger trees in a circle all round the trunk; which prevents the leaves from growing next feafon, he plows about two inches and a half deep, then acrofs; then fows the feed and harrows it. Upon the average of his land, his crop of wheat is not above twelve bufhels per acre ; of oats from fifteen to twenty. *

[^63]The trees cut down are never rooted up. The value of the land gained will not pay the expenfe of doing this. They are cut off about eighteen inches or two feet from the ground. The fide roots are obfructions to the plough for about two years, when they are completely rotted. The flumps in New-York and Pennfylvania States do not rot away completely under ten years ; in Virginia and Maryland this happens in about feven. It appears, that by catting off the tree a few inches below the furface of the ground, and covering the ftump with mould, the expenfe would not be much increafed, the deformity, which is indeed a great one in an American landfcape, would be prevented, and the procefs of putrefaction accelerated. We never heard of but one perfon, Lord Stirling in New-Jerfey, who had his trees rooted up; and we are inclined to think it wes done at an expenfe much beyond the convenience gained.

The expenfe of clearing heavily timbered land is confiderabie, fometimes to the amount of five and fix pounds per acre, but the great fertility of this kind of land affords ample recompence. In general the whole expenfe is not forty fhillings an acre. One-half or twothirds of the expenie of clearing land in New-York State is repaid by the pot-aih obtained in burning the wood. In Pennfylvania, and the fouthern States, the back fettlers are not fo much in the practice of this ufeful method. The land furveyors have four pounds per thoufand acres for furveying a tract of land, and making return of it; but as the owner finds labourers and provifions, thefe, with other incidental expenfes, will make the coft of furveying altogether about twenty fiillings per hundred acres.

Planters of any confequence frequently have a fmall difitlery as a part of their eftablifhment. A Mr. White on the banks of the Sufquehannah near Sunbury has one which may ferve as a fpecimen of this kind: he has two ftills, the one holding fixty, the other one hundred and fifteen gallons. To a buthel and a half of rye coarfely ground, he adds a gallon of malt and a handful of hops; he then pours on fifteen gallons of hot water, and lets it remain four hours, then adds fixteen gallons and a half more of hot water, making together a barrel of

[^64]thirty-one gallons and a half; this is fermented with about two quarts of yeaft. In fummer the fermentation lafts four days, in winter fix; of this wafh he puts to the amount of a hoghead in the larger ftill, and draws off about fifteen gallons of weak fpirit, which is afterward rectified in the fmaller ftill, feldom more than once. One buthel of rye will produce about eleven quarts of faleable whikey, which fetches per gallon four fhillings and fix-pence by the barrel. Whijkey in England is ufually a fpirit drawn from oats. The rye produces the bafis of gin .

We have no doubt but barley could be well grown, and well malted and Brewed, in almoft any part of America; and beer might be more generally introduced. The American fmall beer,- as well as the porter, is at prefent very good; and as there is no excife upon malt, nor upon malt-liquor, as grain is cheap, and the materials of a brewery to be had for litile or nothing, it is rather furprifing that breweries are not more generally eftablifhed.

The beft view of the hufbandry of the middle States, and the cleareft ideas on the fubject, may be obtained from obfervations on a farm of a medium extent-fuch a one occurs at Paxtang, in the State of Pennfylvania in the poffeffion of a Mr. M'Allifter, a fpirited and intelligent farmer ; and as his place will afford a favourable fpecimen of an American plantation, we fhall detail his eftablifiment.

His farm is about three hundred acres, near the river; a fandy foil, earlier in vegetation by ten days or a fortnight than the higher lands at a diffance. About one third of this quantity is in cultivation, the reft in wood.

The rotation of his crofs are grain; then clover mown twice the firft year, and once the fecond year. In autumn, it is turned in, and grain again, of fome kind, fown upon the fame land.

He manures for his crops either with dung, with afhes, or with plaifter of Paris. It does not appear that he has any fyftem of proportion between cattle and land, for the purpore of procuring a regular fupply of manure. The plaitter of Paris he procures in the ftone from Philadelphia, formerly at feven, now at twelve dollars per ton: he grinds it at home; one ton yields twenty-four burhels. The Erench plaifter of Paris is much the beft; the Nova Scotia plaifter is not fo good. It will not anfwer at all as a manure upon wet lands, but an= fwers well on hot fandy foils, which it preferves moifter than they would otherwife be during the heats of fummer. He fows the plaifter In powder with clover, five or fix bufhels to the acre,

His average produce is of wheat and rye about twenty-three buflacis to the acre, corn, (maize) and oats about thirty bufhels. Weight of a buhelk of wheat from fixty poun's, which is the market weight, to fixty-five pounds; of ryeabout fifty-eight pounds; oats about thirty-five pounds; corn, the white flint kind fown the firft week of May, about fixty pounds per bunhel. The gourd-feed, maize, yields la:ger crops, but it is a late grain.

By means of his plaifter manure he obtains at two mowings, per annum, three ton and a hali of hay per acre. The hay is ready to be ftacked ufually the day after $i t_{0}$ is cut.

His prices of produce and labour are to hufbandmen twenty-five pounds a year, with board, waihing, and lodging; or fix dollars a month, or two fhillines and fix-pence a day in/common, and three fhillings in harveft time. For mowing an acre he pays three fhillings, finding victuals and a pint of whifky, or four and fix-pence withoikt finding any thing elfe. Women in reaping have as mûch wages as men, but at hay-making only fifteen-pence a day, and their victuals. The price of wheat is fix fhillings and fix-pence a bufhel.-Maize three fhillings and nine-pence.-Rye four to five flillings:-Oats two to two fhilliags and fix-pence.-Buck-wheat two hiilings and fix-pence.-Salted pork thirty-three fhillings per cwt.

His ploughs are the common light ploughs of the country. Drill ploughs are little in ufe $:$ in moft parts, the ftumps of trees would prereat their being ufed. He has rejected the hoe-plough; firft, becaufe be nuds ic cats off, too many of the young fibres of the plants; and fecondly, becaufe the iand is too dry to require the furrow. In lieu of the hoe, he harrows the ground, without regarding the grain, fo as to lay it quite flat and deftroy the ridge and furrow. This, he fays Las been the practice in the neighbourhood for two years paft, with的cefs.

In fectiag his cattle, he makes it a rule to give them as much as they will eat. The cow, befides clover-hay and Timothy-hay, have potatoes mixed with ground Indian corn, and the wafh of the diftillery. The hogs the fane. His cows, however, even in fpring do not yield abeve five or fix quarts of milk at a meal. Here, as almoft every where in America, Indian corn is the food of the poultry.

Infead of the chaff-cutting machine, which he now ures, he propofes to bruife the hay between tro mill-ftones, of which the edges come in contact: he has tried this in a fmall way, and finds the hay much better and more expeditioufly cut than by the chaff-cutter.

His fezces are partly the common ftake fence of the country, which we have before defcribed, of wood fplit into lengths of fix or feven feet, and three or four inches fcantling, and laid upon each other an-gular-wife: partly a chevaux de frize fence of wood \&uck in the ground, and partly the common poft and rail fence. He has tried thorn and privet hedges without fuccefs. He then turned his attention to the prickly locult as an indigenous plant of the country. The feeds of. this tree are contained in a pod like a bean, and it is extremely common in Pennfyivania. He ran a furrow with a plough about turo or three inches deep, round his orchard, drilling in the feeds and covering them ; but from the want of a ridge being previoufly thrown up, fome heavy rains, which fucceeded in about ten days, wahed away a great many of the feeds, and rendered the fence incomplete. Thofe ftanding are about four years old, from the feed. They are as thick as a man's arm, at about a foot from the ground, and eight or nise feet high; and had they been dubbed would have been a very complete fence, but the rains haring fpoiled the firf plan, he negleted them. The one-year fhoots of the locuif-tree laid along the furror, would have thrown out fprouts. Perhaps this would be the eafief method of planting them for a hedge. M'Allifter fays, that were he to go upon a new farm, of a thoufand acres for inftance, of uncleared land, his firf object fhould be to cat a road of about two rood in width all round the eftate. The heary wood be would cut up for fences or fire wood, orfuch other purpofes asit.might be fit for : the brufh wood he would lay in two piles on each fide this new road: beiween thefe he would fow or plant locant, and by the time the brufh wood was rotten, the locuft would be a fence. The next operation fhould be to plant an orchard, and ercet a faw mill. Thele ideas appear to be judicious.

His garden produces very fine grapes and framberries. The dry fandy land there feems well adapted to the culture of the vine. A German in his neighbourhood, who poffeffes a very fmall farm, has made every year lately three or four banrels of wine, which M.Allifer, who bas tafted it, thinks very good. He has no doubt whatever of the practicability of making good wine in Pennfyisania. This agrees with other information of perfons, who having fucceeded in the imall way, are plating regular vineyards. Indeed there is a fociety formed at Philadelphia for the promotion of the culture of vineyards, and there does not appear the flightef obftacle to the fuccefs of the attempt. Certainly the Rhine grape, which promifes fair at Sir

Richard Worfley's vineyard in the Ine of Wight, is much more likely - to fucceed in the middle and fouthern States of America.
$\mathrm{M}^{\bullet}$ Allifter's orchard contains thirty acres of ground and one thoufand fix hundred apple trees, part of them planted eight; and part thirteen years ago. They are two rood, thirty-three feet, apart. The year, 1793 , was a very bad year for apples, and he made only fifteen barrels of cyder; the year before he made fix hundred barrels, and if 1794 proved a good year, he expected to make one thoufand from his orchard. He fuppofes his trees in this cafe likely to yield ten bufhels of apples on the average. Perhaps this is the leaft troublefome and moft profitable application of the ground. When the general appearance of the orchard has a red tinge, the trees are healthy. Againft the grub he ufes a decoction of tobacco. He has feverral peach trees, but they have not long been planted. But one plum tree of the damafcene kind, and a few pear, or apricot, and no nectarine trees. He gives fix-pence a piece for apple and peach trees, about three or four years old, that is fit to plant out. Peach trees grow about the thicknefs of the thumb, and four or five feet high in one year, from the flone, and bear fruit in four years from the ftone. Cyder ufually fellis at ten flillings and tweive fhillings per Barrel, of thirty-one gallons and a half, but 1793 being a bad year, it fold for three dollars per barrel, i. e. thirteen fhillings and fixpence ferling, one pound two fhillings and fix-pence currency. His cyder-prefs confifts of two caft iron cog wheels, about one foot diameter, with flanting cogs, turning vertically; thefe he means to change for wooden wheels, owing to the action of the acid upon the iron : they are fed with apples by a hopper; the motion is given by a horfe moving round. The malh of apples thus produced, is put into a kind of cafe, and preffed, not by a fcrew, but by one end of a mafly beam, which is forced down by means of the other end being raifed by a lever. A man depreffes the lever, which raifes the neareft, and depreffes the fartheft end of the beam. "The juice is thus forced upon a platform about feven feet fquare, with a groove all round, and an outlet for the juice from one of the grooves : the beam is about twenty-five feet long, and about fifteen inches fquare; the frames in which it moves, about twenty feet high : he fometimes finds a difficulty in clearing his cyder, which he has not yet conquered. In England this is not an eafy part of the procefs, nor is the beft mode of doing it fettled among the cyder makers. In the warmer climate of America, the liquor will be ftill more liable to fpontaneous fermentation after being once fined. The cyder, hown-

Howevet, of Pennfylvania, is much fuperior, in flavour at leaft, to the Britifh.

He has a fiff pond of two or three acres, in which he keeps all the kinds of fill which the river produces. The wafte water from the fifl pond is applied to feveral purpofes, particularly to irrigate a quantity of meadqw ground at halfa mile diftance. The Americans feem more alive to the benefit of irrigation than any other kind of agricultural improvement.

He has a diftillery, much on the fame plan as that already noticed; it is managed by a profeffed diftiller, who receives one third of the firit produced for his troubie.
He has a fmokery for bacon, hams, \&cc. it is a room about twelve feet fquare, built of dry wood, a fire place in the middle, the roof conical, with nails in the rafters to hang meat intended to be fmoked. In this cafe a fire is made on the floor in the middle of the building in the morring, which it is not neceffary to renew during the day: this is done four or five days fucceffively. The vent for the fmoke is through the crevices of the boards. The meat is never taken out till it is ufed. If the walls are of fone, or green wood, the meat is apt to mould.
His faw mill, which coft about one hundred pounds, confifts of an underfhot water wheel, with a crank, which in its revolution moves one faw in a frame up and down. Another movemént is annexed, by which a ratchet wheel is pufhed on, and this moves the logs for-: ward in a frame; to the frame are annexed pins, which, when the faw has paffed through the log, throws the works in and out of geer; one faw working one thoufand feet a day, is as much as that neighbourhood can at prefent keep employed, and the machinery is lefs complicated than if it worked more faws, and is about fufficient to keep one man employed in:attending it, fupplying it with logs, and removing the planks as they are cut. This fawyer has for wages fixpence per one hundred feet; in eighteen hours the faw will cut two thoufand two hundred feet. M'Allifter receives from two fhillings to, two fhillings and fix-pence per one hundred feet. He purchafes the logs from people who live up the country, and they fend them down in rafts : he pays from two fhillings and fix-pence to three fhillings a piece for logs of from fifteen to twenty feet long, and about a foot diameter; they come down in rafts confifting of.from fifty to one hundred logs broad, and one eight or ten feet longer than the reft,

[^65]3 I faftened

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faftened acrofs the reft with withy twigs; the projecting ends of thit long crofs $\log$ anfwer for the purpofe of fteering by.
.His grift mill coft about eight hundred pounds; he lets it out to a tenant. A load of wheat is fixty bufhels, which cofts twenty-five thillings grinding, the farmer having the offal, i. e. the feconds, middlings, and bran. The wafte in grinding is about twelve pounds per cwt. Sixty bufhels of wheat make twelve barrels of flour, of one hundred and ninety-fix pounds each, nett, i. e. fomewhat more than three bufhels to one cwt. The offal is worth about tbree pounis a load: barrels coft about one fhilling and eight-pence each; if too green, they turn the flour four. The offal pays the expenfe of grinding and batrels. Flour fells at Philadelphia for about fortyfive flillings a barrel.* It is fent thither from Paxtang, M‘Allifter's, by way of Newport, at ten fhillings a barrel.

The details given refpecting Mr. M‘Allifter’s eftablifhment may appear long, but we were anxious to convey clear ideas of the actual ftate and mode of living of the American planters, of which this is a fair, though a favourable fpecimen. Comfortable as it is, M‘Allifter, like almoft all the Americans, having improved the land he occupies, is not fo attached to the fpot as to be unvilling to rethove to the wildernefs of the back country, to fee a new creation of the fame kind form around him, the produce of his own exer. tions.
In the beft cultivated parts of the middle States, the courfe of crops appear to be :

Firft. Indian corn, fown from the middle of May to the firft week in June, in hills about four feet apart each way, dropping three or four feeds in a ho'e. This is ufually gathered off time enough to fav wheat in the fall of the year, though the Indian corn will ftand without damage into the winter.

Second crop is wheat, for which the ground is prepared by two hoe plowings between the corn in the preceding fummer, the plough. going up one fide of a ridge and down the other, and the fame tranfverfely, which earths up the corn (maize) in the form of a hillock. The wheat is reaped at the ufual time, in the latter end of the fummer. In the fpring of this 'fecond year, however, clover is fown among the wheat, and when the latter crap is gotten off the ground,

[^66]\& ferv cattle are turned into the clover for a flort time, juft to top it, but not to eat it clofe.

Third and fourth year, 'clover mown twice in each year. After the laft mowing in the autumn of the fourth year, the ground is plowed and fallowed till May, when in the fifth year, Indian corn comes on again.

Sometimes rye or winter barley is fubflituted for wheat, and fometimes oats for Indian corn, in which cafe the oats are fown in Aprit. Frequently the ground is made to yield an autumnal crop of buck wheat, making two corn crops in one year, in which cafe the buck wheat is fown in June, before the wheat harveft, and is cut juft before the November frofts. The fall, autumnal, crops are ufually fown as near the middle of September as poffible. There, as in England, white clover is the produce of lime-ftone foil.

In the fouthern States, and what is called the weftern territory, the method of preparing and cultivating new lands is fimilar to the middle States, except in the cultivation of tobacco, rice, ine digo, \&c.

## CULTURE OF TOBACCO.

With refpect to the culture of tobacco, it is an art that every • planter thinks he is a proficient in, but which few rightly underfland. A man who wifhes to make fine tobacco, thould be very particular in the choice of his feed: we mean as to the kind. We do not know a greater variety of any kind of vegetable than ${ }^{\circ}$ tobacco ; from the fiweet-fcented; the beft fort, to the thick-jointed, a coarfe kind of tobacco, but of which we think the moft can be made. We would recommend to a gentleman who would wih for the reputarion of a good planter, to cultivate the true fweet-fcented.
When he has chofen his feed, let him prepare the beds in which he intends to fow it, very fine; when thus prepared, they muft be burned with corn ftalks, in order to deftroy the feeds of weeds and grais, which, even when he has done the beft with his beds, he will find very troublefome and difficult to extirpate. The beft time for fowing the feed is as early after Chritmas as the weather will permit. When fown in beds, prepared aṣ above directed, whicki thould be done as foon as poffible after they are burned, inftead of raking in the feed, the beds fhould either be patted with boards; or: gently trodden with naked feet. This being done, the next care is the covering them warmly with cedar or pine brufh, to defend the young plants from the froft.

After all his trouble and care, the planter's hopes are often blafted by a little fly, which frequently deftroys the plants when they firf come up, and very often when they are grown to a moderate fize; no certain remedy againft them has yet been difcovered : we have, indeed, heard, that fulphur will deffroy them, and we believe it will; but it muft be often repeated, and will be too expenfive. We think that a pretty ftrong infufion of faffafras root bark, fprinkled frequently over the beds, would deftroy thofe infects; and we judge fo, becaufe its effects hate been experienced upon the lice, a kind of fly. that infefts cabbages. Drought wiil alfo deftroy the plants, even where they are large in the beds; the planter fhould, therefore, before the drought has continued too long, water his plants night and morning, until he has a good rain. From thefe enemies to plants, the neceffity of having feveral beds differently fituated, fome convenient to water in fwamps, and fome on high ground well expofed, will be feen. Thofe plants at a proper fize, as opportunity offers, are to be tranfplanted into hills at three feet diftance.

Here it may be neceffary to give fome directions as to preparing the ground to receive the plants, and to notice what kind of foil is beft adapted to tobacco. The fame kind of land that is proper for wheat, is fo for tobacco, neither of them delighting in a fandy foil. We do not think a clayey fliff foil will fuit tobacco; however, lef the foil be ftiff or light, it ought to be made very rich, by cow-penning it on the fward, or by fpreading farm-yard manure over it, except it is ftrong new land. Wee would recommend that the hills fhould be made in the autumn, and at about the diftance of three feet, or three and a half in the row' and ftep; by this means it has a larger furface expofed to the froft, which will affilt in the pulverifing and fertilizing it; a good hand may very well tend from ten to twelve thoufand hills of frefh light land, or from fix to ten thoufand of fliff land; and we believe where the planter depends upon manuring his land for a crop, he will find it difficult to get even five thoufand hills properly manured.

If the planter has time to turn over, in the month of February, the hills which were made in the fall, he will find his advantage in it ; but we farce believe that time will be found.

If the tobacco feed has been fown early in good beds, and thofe beds properiy attended to, the planter may expect to plant his hills From them in May. The earlier tobacco is planted the better, as it will not be fit to cot in leís than three months : by planting early,
tobacco will be houred in Auguft, a month by far the beft in the whole year to cut it, as it then cures of a fine bright nutaeg colour, and will have a much better fcent than later tobacco. When the plants are large enough to fet out, the tobacco hillsmuft be prepared by re-working them, breaking the clods very fine, and then cuiting off the top of the hill, fo as to have it broad and low; it is then common to clap the hoe upon the top of it, which breans the fmall clods.

Having turned as many hills as it is cónvenient to plant at one time, the planter fhould wait until a rain comes, ever fo little of which, at this feafon of the year, will be fufficient, provided the plants can be drawn from the beds without breaining. The plants will more readily extend their roots, if fet out after a moderate rain, than if planted in a very wet feafon. . The planter fhould never prepare more hills than he can plant the next feafon, as frefl turned hills are beft for the plants. In this manner proceed until the whole crop is planted. Perfons may continue to plant every feafon until the laft of June, but we think they have very little chance of making good tobacco, if they have not their whole quantity planted by that time. After the crop is pitched or planted in the manner directed, it will require the clofeft attention. The tobacco has at this period a very dangerous enemy in a fmall worm, called the ground-worm, which rifes from the ground, and makes great havoc among the young and tender plants, by cutting off and eating the leaves quite into the hill. -It fometimes happens, that the crop muft be replanted five or fix times before it can be got to ftand well. The planter muft then watch the firft rifing of the worm, and every morning his whole force muft be employed in fearchingi round each plant, and deftroying it. When the tobarco begins to grow, the planter muft carefully cut down the hills fhelving from the plants, and take every weed and fpire of grafs from around the plants, without diffurbing the roots. They will, after this weeding, if the weather be feafonable, grow rapidly. When they have fpread over the hills pretty well, and a little before they are fit to top, about four of the under leaves fhould be taken off; this is called priming; and then the tobacco muft have a hill given to it.

As foon as it can be topped to ten leaves, it muft be done, and this a careful hand well ufed to the bufinefs : he fhould fuffer his thumb nails to grow to a confiderable length, that he may take out the froall bud from the top without bruifing, leaving ten leaves be-
hind in the firft or fecond topping, or until it grows too late for the plant to fupport fo many leaves; then to fall to eight, and even to fix: but this the fkilful topper will be the beft judge of, as it can be only known from experience. The tobacco is now attacked by another enemy, as dangerous and as deftructive as any ; it is the horn-worm, of a green colour, which grows to a large fize, and, if fuffered to fray on the plant, will deftroy the whole. The firft glut of them, as the planters cail it, will be when the tobacco is in the fate abovementioned; and hands muft be almof conftantly employed in pulling them off and preventing their increafe; but if the planter has a flock of young turkeys to turn into the field, they will effectually deftroy thefe worms. The planter muft again hill up his tobacco and lighten the ground between the hills, that the roots of the tobacco may extend themfelves with eafe. Immediately after topping, the tobacco begins to throw out fuckers between the leaves where they join the ftalk : thefe fhould be carefully taken off, for if they are fuffered to grow, they greatly exhaúft the plant. Not long after the firft glut of worms comes a fecond, in greater quantities than the former, and mult be treated in the fame manner.

Tobacco, thus managed, will begin to ripen in the month of Auguft, when it is to be cut, as it ripens, in order to be houfed: but the planter, if he is not a judge himfelf, or not able to atttend to it, fhould have a very fkilful fet of cutters, who know well when tobacco is ripe; for if it be cut before it is full ripe, it will never cure of a good colour, and will rot in the hoghead after it is prized. The tobacco, when ripe, changes its colour and looks greyif; the leaf feels thick, and if preffed between the finger and thumb will eafily crack; but experience alone can enable a perfon to judge when tobacco is fully ripe.

We think the beft time to cut tobacco is the afternoon, when the fun has not power to burn it, but only caufes the leaves to be fupple, that they may be handled without breaking: it fhould then remain on the ground all night; the next morning, after the dew is off, and before the fun has power to burn it, it muft be picked up, but there fhould be no appearance of rain the preceding night; for fhould a heavy rain fall upon the tobacco, when lying on the ground, it will injure it greatly, by filling it with grit, and perhaps bruifing it. Tobacco is indeed generally cut in the morning, but in this cafe. it muft be watched very narrowly, and picked up; and put in fmall
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héaps on the ground, before it begins to burn; for if it be fcorched by the fun it is good for nothing.

There are different methods taken in the management of tobacco immediately after being cut, and fufficiently killed by the fun for handling: fome hang it upon fences until it is nearly half-cured before they carry it to hang up in houfes built for the purpofe; but this mode we cannot approve of, as the leaves are too much expofed to the fun, and are apt to be injured. A much better method is, to have fcaffolids made clofe to the houfe intended to cure the tobacco in; and having a fufficient number of tobacco fticks, of about four fect and- $\frac{b}{4}$ half long, and an inch thick, to bring in the tobacco from the field, and putting from ten to fourteen or fifteen plants upon a ftick, to fix the fticks upon this fcaffold, about nine inches one from another. There the tobacco fhould remain until the leaves turn yellow. By this method the fun is prevented from coming to the leaves, and the rays only fall on the ftalks. After remaining a fufficient time, the fticks fhould be removed with the tobacco on them, into the boufe, and be fixed where they are to remain until the tobacco be fully cured.

The houles built for the tobacco fhould be from thirty to fixty feet long, and about twenty feet wide; the roof to have wind beams about four feet diftance to fix the fticks on, and contrived at proper fpaces to receive the whole of the tobacco until the houfe is full; fo that there fhould be a face of fix inches between the tails of the upper plants and heads of the lower, for the air to pals through.

If a perfon has houfe-room enough, we would advife, that the tobacco fiould have no fun, but be carried into the houfe immediàtely after it is killed, and there hung upon the fticks. But, in this cafe, the plants fhould be very few on the fticks, and the ficks at a greater diftance from each other, for tobacco is very apt to be injured in the houfe if hung too clofe in a greẽn ftate. If a crop could be cured in this way, without fun, its colour would be more bright, and the Havour finer, the whole juices being preferved unexhaled.

When the tobacco is fully cured in the houfe $e_{\text {, }}$ which may be known by the colour of the leaf and the drynefs of the ftem, it may be then flripped from the ftalk, when it is in a proper ftate, tinat is, in a feafon which moiftens it fo as it can be handled. As foon as the tobacco is fo pliant, that it can be handled without breaking the leaves, it is to be-ftruck from the fticks, put in bulk
tuntil it is ftripped from the ftalk; which, in the earlier part of the year, fhould be immediately done, left the ftalks, which are green, ihould injurethe leaf. If the tobacee is too high in cafe when it is fruck, it will be apt to rot when it gets into a fweat. One thing flould be particularly attended to, and that is, it fhould be ftruck as it firft comes into cafe, for if it hangs until it is too high, or moift, and you flould wait until the moifture dries away to the fate we advife it to be in when you ftrike it, it will moft certainly; when in bulk, return to its full fate of moifture; and therefore it fhould bang until it is perfectly dry; and you are to wait till another feafon arrives to put it in proper cafe.

The next thing to be done after the tobacco is fruck is to ftrip it; and here particular attention is neceffary: all the indifferent leaves are firft to be pulled from the ftalk, by forters well acquainted ${ }^{+}$ with the bufinefs, and tied by themfelves, to be afterwards ftemmed. The plant, with the fine leaves, is to be thrown to the ftrippers; they are to ftrip off the leaves, and tie up five leaves in a bundle, of equal goodnefs. When you have got enough for a hoghead, which we flould advife not to be more than a thoufand weight, it flould be immediately packed up with very great care, and prized. The hogfleads fhould be made of ftaves not exceeding forty-eight inches long, and the head ought not to be more than from thirty to thirty-two inches in diameter. No directions can be given here for the packing, it can only be learned from practice. If more tobacco than here recommended be prized into a hoghtead, without much care it will be apt to be bruifed, a circumflance which fhould be carefully avoided.

## ON THE GULTURE OF INDIGO.

As the culture of this plant is in a manner confined to particular parts of the United States, the obfervations thereon will be concife; as, however, it may ere long be attempted, and certainly with a great probability of fuccefs, in fome parts of the fouthern States, where it has not as yet been tried, the introduction of thefe remarks will need no apology.

The indigo tree is a fraight and rather bufhy plant: from its root arifes a ligneous brittle frem, of the height of two feet, branching from the beginning, white on the infide, and covered with a sreyif bark : the leaves are alternate, compofed of feveral fmall leaves difpofed in two ruws alons common cofta, which is ter-
minated by a fingle foliolum, and furnifhed at its bafis with two fmall membranes which are called ftipula: at the extremity of each branch arife clufters of reddifh, papilionaceous flowers, rather rmall, and compofed of a number of petals: the flamina, to the number of fix, and the piftil, furmounted with a fingle thle, are arranged as they are in moft of the herbaceous Howers: the piftil is changed into a fimall rounded pod, flightly curved, one inch in length, and a line and a half in breadth, full of cylindrical, fhining and brownifh feeds.
This plant requires a light. foil, well tilled, and never deluged with water; for this reafon fpots are preferred which are floping; becaufe this pofition preferves the indigo plant from the flagnation of the rain, which might deftroy it, and from inundations, that might cover it with a prejudicial flime. Low and flat grounds may alfo be employed for this culture, if channels and ditches are made to dra:v off the waters, and if care be taken to plant them only after the rainy feafon, which often occafions overflowings. The feed is fown in little furrows made by the hoe, two or three inches in depth, at the diftance of a foot from each other, and in as ftraight a line as poffible. Continual attention is required to pluck up the the weeds, which would foon choak the plant. Though it may be fown in all feafors, the fpring is commonly preferred. Moifture caures this plant to floot above the furface in three or four days: it is ripe at the, end of two months. When it begins to flower, it is cut with pruning-knives, and cut again at the end of every fix weeks, if the weather be a little rainy: it lafts about two years, after which term it degenerates; it is then plucked up and planted afrein.
As. this plant foon exhaufts the foil, becaufe it does not abforb a fufficient quantity of air and dew to moiften the earth, it is of advantage to the planter to have a valt fpace which may remain covered with trees, till it becomes neceffary to fell them, in order to make room for the indigo; for trees are to be confidered as fyphons, by means of which the earth and air reciprocally communicate to each other their fluid and vegetating fubftance; fyphons, into which the vapours and the juices being alternately drawn, are kept in equilibrium. Thus while the fap afcends by the roots to the branches, the leaves draw in the air and vapours, which circulating through the fibres of the tree defcend again into the earth, and reftore to it in dew what it lofes in fap. It is in order to maintain this reciprocal influence, that when there are no trees to preferve the fields in a
proper
proper flate for the fowing of indigo, it is cuftomary to cover thofe which are exhaufted by this plant with potatoes or lianes, the creeping branches of which preferve the freflnnefs of the earth, while the leaves, when burnt, renew its fertility.

Indigo is diftinguifhed into feveral fpecies, of which only two are cultivated: the true indigo, which is the fort we have been fpeaking of, and the baftard indigo, which differs from the former, in having a much higher, moie woody, and more durable ftem; in having its foliola longer and narrower, its pods more curved, and its feeds black. Though the firft be fold at a higher price, it is ufually advantageous to cultivate the other, becaufe it is-not fo frequently renewed. is heavier, and yields more leaves, the produce of which is, however, lefs, from an equal quantity. The firft will grow in many different foils : the fecond fucceeds beft in thofe which are moft expofed to the rain. Both are liable to great accidents ia their early flate. They are fometimes burnt up by the heat of the fun, or choaked by" a web with. which they are furrounded by an infect peculiar to thefe regions. Sometimes the plant becomes dry, and is deftroyed by another very common infect; at other times, the leaves, which are the valuable part of the plant, are dewoured in the fpace of twenty-four hours by caterpillars. This laft misfortune, which is but too common, hata given occafion to the faying, that "the planters of indigo went to bed rich, and rofe in the morning totally ruined."
This production ought to be gathered in with great precaution, for fear of making the farina that lies on the leaves, and which is very valuable, fall off by fhaking it. When gathered, it is thrown into the fleeping-vat, which is a large tub filled with water. Here it undergoes a fermentation, which in twenty-four hours at fartheft is completed. A cock is then turned, to let the water run into the fecond unb, called the mortar or pounding-tub. The fteeping-vat is then cleaned out, that frefl plants may be thrown in ; and thus the work is continued without interruption..

The water which hath run into the pounding-tub, is found impregnated with a very fubtle earth, which alone conftitutes the dregs or bluefubftance that is the object of this procefs, and which muft be feparated from the ufelefs falt of the piant, becaufe this makes the dregs fwim on the furface. To effect this, the water is forcibly igitated with wooder buckets that are full of holes, and fixed to a bing handle This part of the procefs requires the greateft pre-
mation. If the agitation be difcontinued too foon, the part that is ufed in dying, not being fufficiently feparated from the falt, would be loft. If, on the other hand, the dye were to be agitated too long after the complete feparation, the parts would be brought together again, and form a new combination; and the falt re-acting on the dregs would excite a fecond fermentation, that would alter the dye, fpoil its colour, and make what is called burnt indigo. Thefe accidents are prevented by a clofe attention to the leat alterations that the dye undergoes, and by the precaution which the workmen take to draw out a little of it from time to time in a clean veffel. When they perceive that the coloured particles collect by feparating from the reft of the liquor, they leave off fhaking the buckets, in order to allow time to the blue dregs'to precipitate to the bottom of the tub, where they are left to fettle till the water is quite clear. Holes made in the tub at different heights are then opened one after another, and this ufelefs water is let out.
The blue dregs remaining at the bottom having acquired the conffence of a thick muddy liquid, cocks are then opened, which draw it off into the fetter. After it is fill more cleared of much fuperfluous water in this third and laft tub, it is drained into facks; from whence, when water no longer filters through the cloth, this matter, now become of a thicker confiftence, is put into chefts, where it entirely lofes its moifture. At the end of three months the indigo is fit for fale.

## ON THE CULTURE OF RICE.

The culture of this plant, like the former, is confined to certain individual States. Low fwampy lands are the only fituations that have been deemed to offer a profipect of fuccefs from its cultivation; but as fuch fituations are frequently found in the newly-fettled parts of the Union, a few obfervations on it will not be foreign to our objett of affording every poffible information to European fettlers.

Rice is a plant very much refembling wheat in thape and coloun and in the figure and difpofition of its feaves. The paniele which terminates the ftem is compofed of fmall flowers, diftinet from each other, which have four unequal fcales, fix ftamina, and one pifill, furrounded with two flyles: this pirtil becomes á white feed, extremely farinaceous, covered with two interior feales, which are Larger, yellowifh, covered with light afperities, and furnifhed with feveral falient cofta, the middle one of which terminates in ant elongated extrentity. This plant thrives beft in low, damp and ${ }_{3} \mathrm{~K}_{2}$
marflay
marthy lands, when they are even a little overflowed. The period of its difcovery is traced to the remoteft antiquity.

Egypt, unfortunately for itfelf, firft attended to it. The pernicious effect of this culture, rendered the country the moft unhealthy in the known world; conftantly ravaged by epidemical diforders, and afllicted with cutaneous difeafes, which paffed from that region to the others, where they have been perpetuated during whole centuries, and where they have only been put a ftop to by the contrary caufe to that which had occafioned them; to wit, the drying up of the marfhes, and the reftoring of falubrity to the air and to the waters. China and the Eaft-Indies muft experience the fame calamities, if art doth not oppofe prefervatives to nature, whofe benefits are fometimes accompanied with evils; or if the heat of the torrid zone doth not quickly difpel the damp and malignant vapours which are exhaled from the rice grounds. It is a known fact, that in the rice grounds of the Milaneze, the cultivators are all livid and dropfical.

A great degree of the unhealthinefs of part of Georgia and SouthCarolina is attributable to the fame caufe. Could the wild, or as it is termed, the mountain rice, be improved by cultivation fo as to fuperfede the culture of that grain in fwamps, it would be a material benefit to fociety; from experiments that have been made, there is fome reafon for hoping this may ere long be the cafe.

## ON THE CULTURE OF HEMP.

Hemp is as profitable a production as any the earth furnifhes, and in point of utility, yields to few articles whatever. The manufacture of it employs numbers of individuals, a great portion of whom are women and children, and it finds a conftant employment for the farmers otherwife leifure time. Its advantages, cither raw or manufactured, are, indeed, great to the farmer and merchant; but as many American farmers manufacture a confiderable portion in their own families, the importance of the cultivation thereof is ftill farther manifeft.

The ufual height of the plant, when growing, is from five to fix feet, but this varies very confiderably according to circumftances. That which is cultivated near Bifchwiller, in Alface, is fometimes more than twelve feet high, and upwards of three inches in circumference, the ftalks being fo deeply rooted, that a very ftrong man can fcarce pull them, up. Mr. Arthur Young, in a tour through Catalomia in Spain, lays, that where the country is well watered, the crops
of hemp are extraordinary, and that the plants generally rife to the height of feven feet. In Italy hemp is generally cultivated, though the Bolognefe oniy can pretend to any fupericrity in the management of it. It is there fown upon their beft lands, which are rich frong loams, and on which they are at all poffble pains to procure a fine friable furface. For manure they ufe dung, pieces of rotten cloth, feathers, and horns brought from Daimatia. The plant, however, may be cultivated upon ground of every kind; the poorer lasd producing that which is finer in quality though in fraller quantity, whereas ftrong and rich land produces a great quantity, but coarfer; it does not exhauft the land on which it grows like flax, whence is is probable, that if properly managed, and care taken in the cultivation, 1 it might be found to fuperfede flax entirely. A Suffex manufaciurer, who writes on this fubject in the Annals of Acriculture, informs us, that it may be raifed for many years fuccefively on the fime ground, provided it be well manured. An acre requires from nine to twedre pecks, according to the nature of the foil; the later being the mofr ufual, though a variation in the quality of the foil makes an alteration both in the quantity and quality of the iemp. An acre produces on an average thirty-fix or thirty-cight fone. The Abbe Brulle, in a treatife upon the culture and management of hemp, printed bj order of the Lords of the Committee of Council for trade and foreiga plantations, informs us, that the feafon for fowing extends from the $25^{\text {th }}$ of March to the $15^{\text {th }}$ of June. The feed ought always to be fown thin, not exceeding two bufhels to an acre, and if you have tie advantage of a drill plough, fill lefs wiil anfwer. As there are two kinds of hemp, the male and female, of whici the former only produces feed, fome regard muft be had to this circumfrance. In fome. parts of England, the male and female are pulied together abcut thirteen weeks after the fowing, but in others they are frequentiy feparated. This laft method is recommended by the Abbe Erulle, who, for the more eafy accomplifiment of it, directs that little paths fhould be made lengthwife through the fieid at about feyen feet diffance from each other, to allow a paffage for the perfon who puils up the female bemp from among the other, the latier requiring to fiand more than a month after for the purpofe of ripening the seedis. The femaie hemp is known to be ripe by the fading of the ficters, the falling of the farina fecundans, and fome of the falks turang sellow. After the whole of this kind is pulled, it muft be manufactared according to the directions hereafter giren, and ougits io be worigec, if pofible, 5.
while green; the hemp thus produced, being much finér than that which is previoufly dried. The reafon of this is, that the plant contains a great quantity of glutinous matter, which being once dried, agglutinates the fibres in fuch a manner, that they can never be afterwards perfectly feparated; the femaie hemp, however, is. always in fmaller quantity than the male, and therefore where the crop is large, it will be impoffible to work the whole as faft as it is pulled or cut. It is known to be ripe by the ftems becoming pale ; but it muft be remembered, that hemp of any kind will be much lefs injured by puling the plants before they are ripe, than by letting them ftand too long.
The male hemp being ftripped of its leaves, $\& e_{0}$ as afterwapds directed, will foon be dry for ftoring by the heat of the atmofphere, though fometimes it may be neceffary to ufe artificial means; but where thefe are ufed, the utmoft care muft be taken, hemp, when dry, being exceedingly inflammable. The ftored or dried hemp muft be freeped and treated in every other refpect as though it had been green; whence it is evident, that this operation ought never to be ufed but in cafes of neceffity. It is likewife difficult to make hemp which has been dried previous to its being fteeped, fo white as thát which has been worked green.

With regard to the perfecting of hemp feed for a fubfequent feafon, it would feem proper to fet apart a piece of ground for this purpofe; for a M. Aimen, from forty plants raifed in the common way, had only a pound and an half of feed, though the plants from which it was taken might be deemed fine; whereas, from a fingle plant which grew by itfelf, he had feven pounds and an half. Some are of opinion, that by putting the clufters which contain the hemp feed to. heat and fweat, the quality is improved; as many of thofe feeds which would otherwife wither and die, may thus arrive at perfection. This, however, feems to be very problematical, as there are no experiments which fhow that feeds, when feparated from the vegetable producing them, have any power of meliorating themfelvés.

After the hemp is pulled, it muft be taken in large handfuls, cutting off the roots; though this is not abiolutely neceffary, the leaves, feeds, and lateral btanches, being dreffed off with a wooden fword or ripple. It is then to be made up into bundles of twelve handfuls each, in order to be fteeped, like flax, in water. This, or fomething fimilar, is abfolutely neceffary, in order to feparate the bath,
which is properly the hemp, from the reed or woody part. This operation is called woater-retting; but fometimes a mere expofure to the air is fubftisuted in its place, turning the hemp frequently during the time it is expofed: this is called dew-retting, but the former method is univerfally deemed preferable. Such hemp as is defigned for feed is feldom water-retted, though, in the opinion of the manufacturer already quoted, it would be better if it were fo. Dew-retted hemp is generally ftacked and covered during the winter; in January and February it is fpread upon meadow land, and whitens with the froft and frow, though it is always much inferior to the other, and proper for coarfer yarns only.

The length of time required for fteeping hemp is various, and a complete knowledge of it can only be attained by practice. It is ufual to continue the immerfion four, five, or fix days; ftanding water is preferred, and the fame water will freep hemp three times during the feafon, but the firft has always the beft colour. The Abbé Brulle prefers clear and running water, efpecially if overhung with trees. The bundles are to be laid croffwife upon èach other, taking particular notice of the manner in which they lie when put in, that they may be taken out without difficulty. His time of fteeping is from fix to eleven days; and here we muft obferve, that it is much better to let it remain too long in the water than too fhort a time. The flendereft hemp requires the moft foaking. The operation is known to be finihhed by the reed feparating eafily from the bark.

After the hemp is thoroughly fteeped, the next operation is to feparate the bark from the reed or woody part; and this may be done in two ways, viz. eitiner pulling out the reed from every flalk with the hand, or drying and breaking it like flax. The Abbe Brulle is very particular in his directions for this laft operation, which he calls reeding, and which may be performed either in a trough under water, or upon a table. The whole, however, may be reduced to the foilowing, viz. preffing down the bundles either in the trongh or on a table by proper weights, to keep the hemp feady on the middle or top end; then beginning at the upper part of the bundle, pull out the reeds one by one. As you proceed, the rind which reinains will prefs clofely upon the remaining unreeded hemp, and keep it more fleady, fo that you may take two, four, or even fix ftalks at a time. The weight is then to be removed from the top, and all the pieces of Feed which recmain there having broken off in the former operatior,
are to be taken out. Laftly, the middle weight is to be taken off, and any fmall pieces which remain there taken out. If the reeding is performed on a table, the bundle mult be weeded frequently, though flightly; a continual dropping of water would perhaps be the bert meṭhod.

After the hemp is reeded, it muft next be freed from the mucilaginous matter with which it ftill abounds. This is done by pouring water through it, fqueezing out the liquid after every affufion, but taking care not to let the threads twift or entangle each other, which they are very apt to do. The Abbé is of opinion, that foft foap fhould be diffolved in the laft water, in the proportion of an ounce to three pounds of dry hemp; which though not abiolutely neceffary, contributes much to the foftening and rendering the hemp eafy and pleafant to drefs.

Hemp is broken by machinery, after being fteeped, in a mamer fimilar to flax, but the inftruments generally ufed for this purpofe are all worked by the hand. That which breaks in the operation is called Borts, and is about half the value of long henip.
Beating of hemp is the next operation, which formerly was performed entirely by hand, but now in moit places by a water mill, which rifes three or four heavy beaters that fall upon it alternately; the hemp being turned all the while by boys in order to receive the ftrokes equally. The finer it is required to make the tow, the more beating is neceffary. It is then dreffed or combed by drawing it through heckles formed like the combs of wool manufacturers, only fixed. Sometimes it is divided into two or three forts of tow, and fometimes, in common heavy work, the whole is worked together into one fort ; the prices varying from fix-pence to one fhilling and-fix-pence per pound.

## ON THE CULTURE OF FLAX.

The following particulars with regard to the manner of raifing fiax, has been for fome years paft warmly recommended by the truftees for fifheries, manufactures, and improvements in Scotland.
A. A milful flax raifer always prefers a free open deep loam, and ah grounds that produced the preceding year a good crop of turnips, cabbage, potatoes, barley, or broad clover ; or have been formerly laid down rich, and kept for fome years in pafture.

A clay foil, the-fecond or third crop after being limed, will anfiver well for fiax ; provided, if the ground beftill ftife, that it be brought
to a proper inould, by tilling after harveft, to expofe it to the winter frofts.

All new grounds produce a ftrong crop of flax, and pretty free of weeds. When a great many mole-heaps appear upon new ground, it anfwers the better for flax after one tilling.

Flax feed ought never to be fown on grounds that are either too wet or dry, but on fuch as retain a natural moifture; and fuch grounds as are inclined to weeds ought to be avoided, unlefs prepared by a careful fummer fallow.

If the feed be fown early, and the flax not allowed to ftand for feed, a rrop of turnip may be got after the flax the fame year; the fecond year a crop of bear or barley may be taken; and the third year, grafs feeds are fometimes fown along with the flax feed. This is the method moftly practifed in and about the counties of Lincoln and Somerfet, in England, where great quantities of flax and hemp are every year raifed, and where thefe crops have long been capital articles. There, old ploughed grounds are never fown with lint feed, unlefs the foil be very rich and clean.

If the ground be free and open, it fhould be but once ploughed, and that as fhallow as poffble, not deeper than two inches and an half. It fhould be laid flat, reduced to a fine garden mould by much harrowing, and all ftones and fods fhould be carried off.

Except a little pigeon's dung for cold or four ground, no other dung fhould be ufed preparatory for flax, becaufe it produces too many weeds, and throws up the flax thin and poor upon the ftalk,

Before fowing, the bulky clods fhould be broken, or carried off the ground; and ftones, quickenings, and every other thing that may hinder the growth of the flax, flould be removed.

The brighter in colour, and heavier the feed is, fo much the better; that which when bruifed, appears of a light or yellowifh green, and frefh in the heart, oily and not dry, and imells and taftes fweet, and not fufty, may be depended upon.

Dutch feed of the preceding year's growth, for the moft part, anfwers beft ; but it feldom fiicceeds if kept another year. It ripenis fooner than any other foreign feed. Philiadelphia feed produces fine fint and few bolls, becaufe fown thick, and anfwers beft in wet cold foils. Riga feed produces coarfer lint, and the greateft quantity of feed. Scots feed, when well winnowed and kept, and changed from one kind of foil to another, fometimes anfwers pretty well, but chould Vol. III.
be fown thick, as many of its grains are bad, and fail. It fprings well; and its flax is fooner ripe than any other ; but its produce afterwards is generally inferior to that from foreign feed.

The quantity of feed fown fhould be proportioned to the condition of the foil; for if the ground be in good heart, and the feed fown thick, the crop will be in danger of falling before it is ready for pulling.

The time for fowing flax feed is from the middle of March to the end of April, as the ground and feafon anfwers; but the earlier the fced is fown, the lefs the crop interferes with the corn harveft.

Late fown flax feed may grow long, but the flax upon the ftalk will be thin and poor.

After fowing, the ground ought to be harrowed till the feed is well coveréd, and then, fuppofing the foil, as before mentioned, to be free and reduced to a fine mould, it ought to be rolled.

When a farmer fows a large quantity of feed, he may find it proper to fow a part earlier and part later, that in the future operations of weeding, pulling, watering and graffing, the work may be the eafier and more conveniently gone about.

It ought to be weeded when the crop is about four inches long. If longer deferred, the weeders will fo much break and crook the ftalks, that they will never perhaps recover their ftraightnefs again; and when the flax grows crooised, it is more liable to be hurt in the rippling aid fwingling.

Quicken grafs fhould not be taken up, for being ftrongly rooted, the pulling of it always loofens a deal of the flax.

If there is an appearance of a fettled drought, it is better to defer the weeding, than by that operation to expofe the tender roots of the flax to the drought.

When the cropgrows fo short and branchy, as to appear more valuable for feed than flax, it ought not to be pulled before it be thoroughly ripe; but if it grows long and not branchy, the feed fhould be difregarded, and all the àtention given to the flax. In the laft cafe it ought to be pulled after the bloom has fallen, when the ftalk begins to turn yeilow, and before the leaves fall, and the bolls turn hard and tharp-pointed.

When the falk is fmall, and carries few bolls, the flax is fine; but the ftalk of coarfe flax is grols, rank, branchy, and carries many polls,

When the flax has fallen and lies, fuch as lies ought to be immediately pulled, whether it has grown enough or not, as otherwife it will rot altogether.

When parts of the fame field grow unequally, fo that fome parts are ready for pulling before other parts; only what is ready fhould be pulled, and the reft fhould be fuffered to ftand till ready.

The flax-raifer ought to be at pains to pull, and keep by itfelf, each different kind of lint which he finds in his field; what is both long and fine, by itfelf; what is both long and coarfe, by itfelf; what is both fhort and fine, by itfelf; what is both fhort and coarfe, by itfelf; and in like manner every other kind by itfelf that is of the fame fize and quality. If the different kinds be not thus kept feparate, the flax muft be much damaged in the watering and other fucceeding operations.

What is commonly called under growth, may be neglected as ufelefs.

Few perfons that have feen pulled flax, are ignorant of the method of laying it in handfuls acrofs each other, which gives the flax fufficient air, and keeps the handfuls feparate and ready for the rippler.

If the flax be more valuable than the feed, it ought by no means to be flacked up, for its own natural juice affilts it greatly in the watering; whereas, if kept long unwatered, it lofes that juice, and the harle adheres fo much to the boon, that it requires longer time to water, and even the quality of the flax becomes thereby harfher and coarfer. Befides, the flax ftacked up over year, is in great danger from vermin and othe accidents; the water in fpring is not fo foft and warm as in harveff, and near a year is thereby loft of the ufe of the lint; but if the flax be fo fhort and branchy as to appear moft valuable for feed, it ought, after pulling, to be itooked and dried upon the field, as is done with corn; then ftacked up for winter, rippled in fpring; and after fheeling the feed flould be well cleaned from bad feeds, \&c.
After pulling, if the flax is to be regarded more than the feed, it fhould be allowed to lie fome hours upon the ground to dry a little, and fo gain fome firmnefs, to prevent the flkin or harle, which is the flax, from rubbing off in the rippling; an operation which ought by no means to be neglected, as the bolls, if put into the water along with flax, breed vermin there, and otherwife fpoil the water. The bolls alfo prove very inconvenient in the graffing and breaking.

The handfuls for rippling fhould not be great, as that endangers the lint in the rippling como.
After rippling, the flax-raifer will perceive, that he is able to alfort each fize and quality of the flax by itfelf more exactly than he could before.

A running fream waftes the lint, makes it white, and frequently carries it away. Lochs, by the great quantity and motion of the water, alio wafte and whiten the flax, though not fo much as running ftreams. Both rivers. and lochs water the flax quicker than canals.
But all flax ought to be watered in canals or ponds, which fhould be dug in clay ground if pofiible, as that foil retains the water beft; but if a firm retentive foil cannot be got, the leottom or fides of the canal, or both the bottom and files, may belined with clay ; or, inftead of lining the fides with clay, which might fall down, a ditch may be dug without the canal, and filled with clay, which will prevent both extraneous water from entering, and the water within from running off.
A canal of forty feet long, fix broad, and four deep, will generally water the growth of an acre of flax.

It ought to be filled with frefh foft water from a river or brook, if poffible, two or three weeks before the flax is put in, and expofed all that time to the heat of the fun. The greater way the river or brook has run, the fofter, and therefore the better will the water be. Springs, or flort-runs froin hills, are too cold, unlefs the water is allowed to ftand long in the canal. Water from coal or iron is very bad for flax. A littie of the powder of galls thrown into a glafs of water, will immediately difoover if it comes from minerals of that kind, by turning it into a dark colour, more or lefs tinged in proportion to the quantity of vitriol it contains.

The canal ought not to be under fhade; which, befides keeping the fyin from foftening the water, might make part of the canal cooler than other parts, and fo water the flax unequally.

The flax-raifer will obferve, when the water is brought to a proper heat, that fmall plants wiil be rifing quickly in it, numbers of fmall iméts and reptiles will be generating there, and bubbles of air rifing on the farface. If no fuch figns appear, the water is either not warm enough, or is otherwife unft for flax.

## TO EUROPEAN SETTLERS.

Mofs holes, when neither too deep nor too fhallow, frequently anfwer well for watering flax, when the water is proper, as before defcribed.

The proper featon for watering flax is from the end of July to the end of Auguft.

The advantage of watering flax as foon as poffible after pulling has been already mentioned.

The flax being forted after rippling, as before mentioned, fhould next be put into beets, never larger than a man can grafp with both his hands, and tied very flack with a band of a few ftalks. Dried ruthes anfwer exceedingly well for binding flax, as they do not rot in the water, and may be dried and kept for ufe again.

The beets fhould be put into the canals or ponds nope ways, or half ftanding upon end, the root end uppermoft. Upon the crop ends, when uppermoft, there frequently breeds a deal of vermin, deItructive of the flax, which is effectually prevented by putting the crop end downmort.

The whole flax in the canal ought to be carefully covered from the fun with divots; the graffy fide of which flould be next the fiax, to keep it clean. If it is not thus covered, the fun will difcolour the flax, though quite covered with water. If the divots are not weighty enough to keep the fiax entirely under water, a few ftones may be laid above them. But the flax fhould not be preffed to the bottom.

When the flax is fufficiently watered, it feels foft to the gripe, and the harle parts eafly with the boon or fhow, which laft is then become brittle, and looks whitifh. When thefe figns are found, the flax fhould be taken out of the water, beet after beet; each gently rinfed in the wrater, to cleanfe it of the naftinefs which has gathered about it in the canal ; and as the lint is then very tender, and the beet tlackly tied, it muft be carefully and gently handled.

Great care ought to be taken that no part be overdone; and as the coarfeft dwaters foonef, if different kinds be mixed together, a part will be rotted, when the reff is not.fufficiently watered.

When flax taken out of the canal is not found fufficiently watered, it may be laid in a heap for twelve, eighteen, or twenty-four hours, which will have an effect like more watering; but this operation is nice, and may!prove dangerous in unikilful hands.

After the flax is taken out of the canal, frefh flax flould not be put a fecond time into it, until the former water be run off, and the canal cieaned, and fupplied with frefh water.

Short heath is the beft field for graffing flax, as when wet; it faftens to the heath, and is thereby prevented from being blown away by the wind. The heath alfo keeps it a little above the earth, and fo expofes it the more equally to the weather. When fuch heath is not to-be got, links or ciean old lea ground is the next beft. Long grafs grounds fhould be avoided, as the grafs growing through the lint fre. quenlly fpors, tenders, or rots it; and grounds expofed to viclent winds thould alíc be avoided.

The flax, when taken out of the water, muft be fpread very thin upon the ground, and being then very tender, it muft be gently handicd. The thinner it is fpread the beter, as it is then the more equally expofed to the weather. But it ought never to be fpread during a heavy fhower, as that would wall and wafte the harle too much, which is then exceffively tender, but foon after becomes firm enough to bear the rains, which, with open air and funthine, cleans, foftens, and purifies the harle to the degree wanted, and makes it blifter from the hoon. In fiort, afier the flax has got a little firmnefs by being a few hours fpread in dry weather, the more rain and funfline it gets the better.

If there be little danger of high wifds carrying off the flax, it will be much the better for being turned about once a week. If it is not to be turned, it ought to be very thin fpread. The fpreading of flax and hemp requires a deal of ground, but amply repays by enriching it greatly.
The flilful flax-raifer fp:eads his firt row of flax at the end of the field oppofite to the point from wheace the moft violent wind commonly comes, placing the root ends foremoft; he makes the root ends of every other over-lap the crop ends of the former row three or four inches, and binds down the lat row with a rope ; by which means the wind does not eainly get below the lint to blow it away: and-as the crop ends are feldom io fully watered as the root ends, the aforefaid over-lapping has an effect like giving the crop ends more watering. Experience only can fully teach a perfon the figns off flax being fuffificiently graffed; then it is of a clearer colour than formerly, the harle is bliftered up, and eafily parts with the boon, which is then bccome very brittle. The whole fhouid be fufficiently grafed before
sny of it is lifted; for if a part be lifted fooner than the reft, that which remains is in great danger from the winds.

A dry day ought to be chofen for taking up the flax; and if there be no appearance of high wind, it fhould be loofed from the heath or grass, and let loofe for fome hours, to make it thoroughly dry.
As a great quantity of flax can fcarcely be all equa!ly watered and graffed, and as the different qualities will beft. appear at lifting the flax off the grafs; therefore at that time each different kind fhould be gathered together, and kept by itfelf, that is, all of the fame colour, length, and quality.
The fmaller the beets it is made up in, the better for drying, and the more convenient for flacking, houfing, \&c. and in making up thefe beets, as in every other operation upon flax, it is of great confequence that the lint be laid together as it grew, the root ends together and the crop ends together.

With refpect to the dreffing of flax, for many ages it was the practice to feparate the boon or core from the flax, which is the bark of the plant, beating it with a maliet, or more dexteroully with the break, a fimple and more convenient method than the former.

Thefe methods of breaking the flax are, however, flow and very laborious. A water mill was invented in Scotland about forty years ago, which, with fome late improvements, makes great difpatch, and in lkilful and careful hands gives fatisfaction. It $^{\text {a }}$ has been generally conftructed to break the boon by three dented rollers, placed one above the other. The middle one of which, being forced quickly round, takes the other two along with it, and one end of the handfuls of the flax being by the workmen directed in between the upper and middle rollers, the flax is inmediately drawn in by the rollers; a curved board or plate of tin behind the rollers directs the flax to return again between the middle and undermoft rollers; and thus the operation is repeated until the boon be fufficiently broke. Great weights of timber or flone at the ends of levers, prefs the upper and under rollers towards the middle one.

The fcutching, which was formerly done by hand, is likewife carried on by the mill in the following manner: four arms, fomething like hand-fcutchers, project from a perpendicular ayle; a box around the axle inclofes thefe projecting fcutchers $/ 7$ and this box is divided among the workmen, each having fufficient room to fland and handle his flax, which, through flits in the upper part and fides of the box, they hold in to the ftroke of.

[^67]the fcutchers, which moving round horizontally, frike the flax acrofs or at right angles, and fo threfh out or clear it of the boon.

The breaking of the flax by rollers is fcarcely fubject to any objection, but that it is dangerous to workmen not fufficiently on their guard, who fometimes allow the rollers to take hold of their fingers, and thereby their whole arm is inftantly drawn in : thus many have loft their arms. To avoid this danger, a break, upon the general principles of the hand-break before defcribed, has been lately adapted to water machinery, and ufed in place of rollers. The horizontal fircke of the fcutchers was long thought too fevere, and wafteful of the flax ; but very careful experiments have difcovered that the watte complained of muft be charged to the unfkilfulnefs or negligence of the trorkmen, as in good hands the mill carries away nothing but what, if not fo fcu:cied off, muft be taken off in the heckling with more lof, both of time and flax. But to obviate this objection of the violence of the horizontal fcutchers, an initation of hand-fcuiching has lately been applied to waier. The fcutchers then project from an borizontal axie, and move like the arms of a chsck reel, ftriking the flax neither acrofs nor pe-bendicularly doxn, but floping in upon the parcel exactly as the fiax is ititek by the hand-futcher. This floping firoke is got by ra:ifng the feutching fock fome inches higher than the center of the axie, and by raifing or lowering the flock over which the flax is held, or ferewing it nearer to or farther from the fcutchers, the workmen can temper or humour the ftroke almoft as he pleafes.

A lint-mill, with horizontal fcutchers upon a perpendicular axie, requires a houfe of two ftories, the rollers or break being placed in the ground ftory, and the fcutchers in the loft above; but a mill with vertical fcutchers on an horizontal axle, requires but oneground ffory for all the machinery.

Another method of breaking and fcutching flax, more expeditious than the old hand methods, and more gentle than water mills; bas allo been invented in Scotland. It is much like the break and featcher giving the floping ftroke laft deferibed, moved by the foot. The treddle is remarkably long, and the fcutchers are fixed upon the sim of a fly wheel. The foot break is alfo affifted in its motion by a fly. Thefe foot machines are very ufeful where there are no water mills, but they are far inferior to the mills in point of expedition.

The next operation that flax undergoes after feutching is heckling. The heckle is firmly fixed to a bench before the workman, who atrikes the flax upon the teeth of the heckle, and draws it through the teeth. To perfons unacquainted with this kind of work, this may feem a very fimple operation; but, in fact, it requires as much practice to acquire the flight of heckling well, and without wafting the flax, as any other operation in the whole manufacture of linen. They ufe coarfer and wider teethed heckles, or finer, according to the quality of the flax, generally putting the flax through two heckles, a coarler one firt, and next a fine one.

The following obfervations, firft publifhed in the Gentleman's Magazine for June 1787 , feem worthy of very particular attention, and may not therefore be improperly fabjoined as a fupplement to the prefent article.
"The intention of watering flax is, in my opinion, to make the boon more brittle or friable, and by foaking, to diffolve that gluey kind of fap that makes the bark of plants and trees adhere in a frmall degree to the woody part. The bark of flax is called the barle, and when feparated from the urelefs woody part, the boon, this harle itfelf is called flax. To effect this feparation eafily, the praftice has long prevailed, of foaking the flax in water to a certain degree of fermentation, and afterwards drying it. For this foaking fome prefer rivulets that have a fmall current, and others flagnant water in ponds and lakes. In both methods the water acts as in all other cafes of infafion and maceration; after two or three weeks it extracts a great many juices of a very ftrong quality, which in ponds give the water an inky tinge and offenfive fnell, and in rivulets mix in the fream and kill the fifl. Nay, if this maceration be too long continsed, the extracted and fermented fap will completely. kill the flax itfelf. For if inftead of two or three weeks, the new flax were to lie foaking in the water four or five months, I prefume it would be good for nothing but to be thrown upon the dunghill; both harle and boon would in time be completely rotted; yet the harle or flax, when entirely freed from this fap, and manufactured into linen, or into ropes, might lie many months under water without being much da. maged; as linen, it may be walhed and fteeped in fcalding water twenty times without lofing mach of its ftrength, and as paper, it acquires a kind of incorruptibility.
"It appears then effential to the right management of new flax, to get rid of this pernicious vegetative fap, and to macerate the boon';
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but
but from the complaints made againft both the methods of watering now in ufe, there is reafon to think that there is fill great room for improvement in that article. In rivulets, the vegetative fap, as it is diffolved, is carried off by the current, to the deftruction of the fifh. This prevents the flax from being ftained; but the operation is tedious, and not complete, from the uncertainty of knowing when it is juft enough, and not too much, or perhaps from neglect. In ponds, the inky tinge of the water often ferves as a kind of dye to the flax, which imbibes it fo ftrongly, that double the labour in bleaching will bardly bring the linen made of fuch flax to an equality in whitenefs with linen made of flax untinged. This feems to be equally unwife as though we were to dye cotton black firft, in order to whiten it afterwards. Thefe ponds, befides, become a great nuifance to the neighbourhood; the impregnated water is often of fuch a pernicious quaility, that cattle, however thirfty, will not drink of it, and the efluvia of it may perhaps be nearly as infectious as it is offenfive. If this eflluvia is really attended with any contagious cffects in our cold climate, a thing worth the inquiring into, how much more pernicious muft its effects haye been in the hot climate of Egypt, a country early noted for its great cultivation of fax ?
©: I have often thougbt that the procefs of watering might be greatly improyed and flyortened by plunging the new flax, after it is rippled, into fcalding water; which, in regard to extracting the vegetative fap, would do in five minutes more than cold water would do in a fortnight, or perhaps more than cold water could do at all, in refpect to the clearing the plant of fap. Rough almonds, when thrown into fcalding water, are blanched in an iniftant ; but perhaps a fortnight's macerating thofe almonds in cold water would not make them part fo eafily with their Ikins, which are the fame to them as the harle is to the flax. Were tea leaves to be infufed in cold water a fortnight, perhaps the tea produced by that infufion would not be fo good to the taite, nor fo ftrongly tinged to the eye, as what is effected by fcalding water in five minutes. By the fame analogy, I think, flax or any fmall twig would be made to part with its bark much eafier and quicker by being dipped in boiling water than by being iteeped in cold water.
"This reflection opens the door for a great variety of new experiments in regard to flax. I would therefore recommend to gentlemen cultivators and farmers, to make repeated trials upon this new fyftem, which would foon afcertain whether it ought to be adopted
in practice or rejected. One thing, I think, we may be certain of, that if the Egyptians watered their flax in our common manner, they undoubtedly watered it in very warm water, from the grea? hea: of their climate, which would probably make them negleat to thiuk of water heated by any other means than that of tie fun. A good general practice can only be effablifhed upon repeated trials. Though one experiment may fail, another with a little variation may fucceed; and the importance of the object defired to be obtained will juftify a good degree of perfeverance in the profecution of the means. In this view, as the Chinefe thread is faid to be very ffrong, it would be worth while to be acquainted with the practice of that diftant nation, in regard to the rearing and manufacturing of flax, as well as with the methods ufed by the Flemings and the Dutch.
" Boiling water, perhaps, might at onice clear the new flax from many impurities, which, when not removed till it be fpuin into yarn, are then removed with difficulty, and the lofs of fubftance to the yarn. Why fhruld not the longitudinal fibres of the flax, before they be fpun into yarn, be made not only as fine but as clean as porfible? Upon the new fyttem propofed, the att of bleaching would begin immediately after the rippling of the flax, and a little done then, might periaps fave much of what is generally done after the fpinning and weaving. To fpin dirty flax with a view of cleaning it afterwards, appears to be the fame impropriety as though we were to referve part of the dreffing given to leather till after it is made into gloves.
" Stiould the plunging of the flax into the boiling water not fuffice to make the boon brittle enough, as I am inclined to think it would not, then the common watering might be added; but in that cafe probably half the time ufually given to this watering would fuffice, and the flax might then be laid in clear rivulets; without any apprehenfion of its infecting the water and poifoning the fifh, or of being difcoloured itfelf; for the boiling water into which it had been previoully put, would have extracted all the poifonous vegetative fap, which I prefume is what chiefly diffolours the flax or kills the fifl.
"On the fuppoifion that the ufe of boiling water in the preparation of flax may be found to be advantagecus and profitable, I can recollect at prefent but one objection againft its being generally adopted. Every flax grower, it may be faid, could not be expected : thive conveniences for boiling water futticient fer the purpofe;
the confumption of water would be great, and fome additional expenfe would be incurred. In anfwer to this I fhall obferve, that I prefume any additional expenfe would be more than reimburfed by the better marketable price of the flax; for otherwife any new improvement, if it will not quit coft, muft be dropt; were it even the fearching after gold. In a large cauldron a great deal of flax might be dipt in the fame water, and the confumption perhaps would not be more than a quart to each fleaf. Even a large houfhold pot would be eapable of containing one freaf after another; and I believe the whole objection would be obviated, were the practice to prevail as in Flanders and Holland,-that the flax-grower and flax-dreffer fhould be two diftinct profeffions.
"I fall conclude with recommending to thofe who are inclined to make experiments, not to be difcouraged by the failure of one or two trials. Perhaps the flax, inftead of being juft plunged into the fealding water, ought to be kept in it.five minutes, perhaps a quarter of an hour, perhaps a whole hour. Should five minutes, or 2 quarter of an hour, or an hour, not be fufficient to make the boon and harle eafily feparate, it might perhaps be found expedient to boil the flax for more than an hour; and fuch boiling when in this ftate, might in return fave feveral hours boiling in the article of bleaching. It is not, I think, at all probable that the boiling of the tlax with the boon in it would prejudice the harle; for in the courfe of its future exiftence, it is made to be expofed twenty or forty times to this boiling trial, and if not detrimental in the one cafe, it is to be prefumed it would not be detrimental in the other. Perhaps, after the boiling, it would be proper to pile up the flax in one heap for a whole day, or for half a day, to occafion fome fermentation; or, perhaps, immediately after the boiling, it might be proper to walh it with cold water. The great object, when the flax is pulled, is to get the harle from the boon with as little lofs and damage as poffible; and if this is accomplifhed in a more complete manner than ufual, confiderable labour and expenfe will be faved in the future manufacturing of the flax. On this account I think much more would be gained than loif, were the two or three laft inches of the roots of the ftems to be chopped eff, or clipt off, previous to the flax being either watered or foiled. When the flax is watered, care fhould be taken rot to fpreace is out to dry, when there is a hazard of its being expofed in its wet fate to froft"

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## ON THE CULTIVATION OF THE VINE.

In feveral preceding parts of this work we have mentioned the advantages the United States poffefs for the culture of the vine, and, of confequence, for the making wines of a fuperior kind; as the attempts made have in many parts fucceeded, and as many American farmers have attended to it of late, we fhall need no apology for introducing the following efflay on the culture of the vine, and the making and preferving of wines fuited to the different climates of the United States.

Whoever confiders the general climate of North-America, the foil, the feafons, the ferenity and drynefs of the air, the length and intenfenefs of the heat, the fair and moderate weather that generally prevails in the fall, when grapes are coming to maturity, and arrive at their greateft perfection; whoever compares the prefent fate of the air, with what it was formerly, before the country was opened, cleared and drained, will find, that they are every year faft advancing to that pure and perfect temperament of air, fit for making the beft and richeft wines of every kind.

Such has been the bounty and goodnefs of heaven, that there. are vines adapted to every country, to every region, from fifty degrees. both north and fouth latitude down to the equator; and the countries beyond thefe may eafily be fupplied by traffic, fo that all the fons of men may partake of this general, this univerfal bleffing.

It is not every vine that is fit for every country; fome are earlier ${ }_{x}$. fome are later ripe; fome are tender and delicate, and wili not ftand the, feverity of winter; others are hardy and robuft, and will ftand any weather. Hereafter we fhall range them in propur and diftinct claffes, and-adapt the different forts by name to the different climates in America, where they may be propagated with fafety and to the belt advantage.

A vine, from a ftick or cutting begins to bear fruit the third year, the fourth year it bears more, and the fifth year the planter may make wine; and from that time until it attains the full age of man, it increafes in value and yields a richer wine; and, if from the begianing the vine is carefully pruned, duly manured and properly cultivated, : it will amply reward for all the labour, expenfe and care, beftowed on it, and will hold good above an hundred years, as moft writers affirm; but then it muft be tended by a careful and fteady hand, for it will not bcar to be dighted or neglected: if the
ground is not manured and kept in good heart, the vine will bear no fruit; if the planter negleet to cultivate the foil and keep it clean, the fruit will be knotty and ftarved, and will not come to maturity ; if he fuffer the ftakes or props to fall, and the vine to fprawl on the ground, the fruit will not ripen, but remain auftere, and will not make good wine. Wine is too rich a juice to be made from a barren foil, or by lazy idle flovens; fuch men fhould never undertake a vineyard; they. not only hutt themfelves, but hinder others; who are fit for the undertakingy from making the attempt. If a vineyard does not fucceed; the fault is in the man, not in the vine : it will flourifly and profper under a careful and diligent hand, but it will degenerate and run wild under the hand of floth and idlenefs. A gentleman of Rome; who took great delight in vineyards, fome of which he had raifed with his own hands, wrote a very elegant piece upon the culture of vines, and in the moft pathetic terms recommends it to the people of Italy, as the moft profitable as well as agreeable and amufing undertaking. Among many other encouragements, he tells them this fory: " Pa vidius Veterenfis, a neighbour of my uncle, had a vineyard and two daughters. Upon the marriage of one of them, he gave with her as her dowry one-third of his vineyard; and then doubled his diligence, and cultivated the remainder fo well, that it yielded him as much as the whole had done before: upon the marriage of the other daughter, he gave with her one other third of his vineyard; and now having but one-third part of the whole left; he fo manured and cultivated it, that it yielded him full as much as the whole had done at firft."

This ingenious author accufes many of his countrymen of having begin this work with feeming refolution, and of laving carried it on for fomg time with affiduity, but before they had brought it to perfection they flagged, and for want of fteadinefs and a little longer perfeverance, loft their money, their labour, and all their profpeets. At the fame time he proves to a demonftration, from exact and minute calculations, the great advantages of vineyards notwithftanding the great expenfe the Romans were at in buildings, inclofures, workmen and magnificent works; and brings his own vineyards, which were well known, as proofs of all he had faid.

We dlall take the liberty to conclude this introduction with a fhort but pleeafing defcription of the vine, which Cicero, in his beautiful tract upon old age, puts into the mouth of Cato:
ct The vine, that naturally runs low, and cannot rear itfelf without a fupport, is for this end provided with tendrils, by which, like fo many hands, it lays hold on every thing it meets with that may raife it, and by thefe aids it expands and becomes fo luxuriant, that to prevent its running out into ufelefs wood, the dreffer is obliged to prune off its fuperfluous wandering branches; after which, from the ftanding joints, in the enfuing spring, the little bud called the gem pufhes out the new fhoot whereon the tender young grape is formed; which gradually fwelling by nourilmment from the earth, is at firft auftere to the tafte, but guarded with leaves around, that it may neither want due warmth, nor fufter by too fcorching rays, it ripens by the fun's enlivening beams; and acquires that delicious fweetnefs and beautiful form, that equally pleafes both the tafte and the eye; and then enriches the world with that noble liquor, the advantages of which I need not name. Yet is not the fenfe of thefe, nor of all the advantages of hufbandry, that fo nearly affect us, as the pleafure I find in their culture alone; fuch as ranging the vines and their fupporting perches in exact and even rows, in arching and binding their tops, lopping off the woody and barren, and training the fruitful branches to fupply every vacancy, and then contemplating the beauty and order with the procefs of nature in the whole."

The firft thing neceffary to a good vineyard is a proper plot or piece of ground; its fituation fhould be high and dry, free from fprings and a wet fpongy foil; its afpect or front fhould be towards the fouth and fouth-eaft : though the ground be not a hill, yet if it - be high, open and airy, and gradually afcending towards the fouth or fouth-eaf, it will do very well; if it be a fruitful hill, it will do better; but if it be a mountain, with a rich foil, it will be beft of all, for the higher the vineyard the richer the vine.

The foil moft natural to a vineyard, and fuch as produces the $\dot{f}_{\text {weeteft grapes, }}$ and the richeft and frongeft wine, is a rich mould mixed with fand: the newer and frefher the ground the better; fuch a foil may be found on a rifing ground and on fome hills, but very fcldom on the fides of mountains; for here the foil is generally ftiff and clayey, fo ordered by Providence, as being lefs fubject to be walhed away by hard rains; but this ftiff foil on the fide of mountains differs greatly from clay grounds below; the winds and air, and the fun's heat, fo dry and warm it, that it becomes a proper bed for
sines, and renders them both prolific and productive of the richeft wines.

A rich warm foil mixed with gravel, or a fandy mould interfperfed with large ftones, or with fmall loofe rocks, are alfo very proper for a vineyard: rocks and ftones, if the foil be good, warm and dry, are no difadvantage to vines; on the contrary, they reflect great. heat to the fruit, and thereby contribute towards perfecting the wine, efpecially if they are on rifing ground; on the declivity of a hill, or on the fide of a mountain : it is true they are attended with fome inconveniencies: it is more difficult to keep fuch a vineyard clean, to ftake it well, to range the vines in proper order and regular form, to dung the ground, and gather in the vintage. But then, thefe rocks and frones will make a good, clofe, ftrong and lafting fence. On the fides of hills and mountains they are abfolutely neceffary to make low rough walls along the lower fide of the vines, to preferve the good foil from walling away. They ferve alio to keep the ground moint in hot dry times, when, but for them, the foil would be parched up ałong fuch feep grounds. - In fhort, there would be no fuch thing as raifing vinegards on fuch grounds, were it not for rocks and fones. For as it is neceffary to keep the foil joofe and mellow, it wouid all wafh away with hard rains, if not prevented by forming a kind of rough wall of ftones along the lower fide of each row of vines. Again, fuch lands are cheap, being unfit for other purpofes, generally yielding but little timber or grafs. They may therefore be purchafed by poor people; who could pot afford to go to the price of good land. Laftly, thefe fteep hills and mountains always yield the richeft wines, the value and price of which will compenfate for any extraordiany labour.

If the ground be worn and out of heart, rit muft be renewred and helped with dung, with frefh mould, with creek mud, with the rich foil that lodges along the fides of brooks or rivers, or that fettles in low places at the foot of hills or mountains; or by foddering cattle or fheep upon it with good ftore of ftraw, falt hay, or corn ftalks, \&c. or by penming fuch cattle upon it and plowing all mader it as deep as may be, till all be made fufficiently rich, or by any other method that fhall befl fuit the owner.

If the ground is ftiff, it may be mended by good fore of fand, athes, foot, the rubbih and mortar of old buildings, well pounded, efpecially if fuch mortar be made of -lime and fand, by the duft and

Friall coal of coal kilns, and the earth that they are covered with when they are burnt, fea fand or fine gravel, and jowis ass fres's dung, or the old dung of neat cattle.

After the ground is Brought into good heart, and has been deep ploughed or dug and well harrowed, fo as to be quite mellow, it thould be well fecured with a good clofe fence, fufficiently ftrong to prevent the intrufron of cattle and hogs, for on this depends much of the fuccefs of the whole plantation.

The next ftep to be taken is to provide a fufficient fock of vine cuttings, not onily enough to plant the vineyard, but a fmall murfery too. If thefe cannot be had all at once, the planter thould begin to lay np a year or two beforehanid, and plant them in his nurfery in even rows, at four inches diftance, and the rows three feet afunder, that they may be hoed and kept clean; in this cafe he flould fcatter fome thort fraw and chaff between the rows to keep the ground moift and the weeds down. The ground of the nurfery fhould be in good heart, but by no means fo rich as the foil of your vineyard; if it is, when the plants are removed into the vineyard, they will fexdom flourifh or become fruitful. The rear fon of planting the cuttings to clofe in the nurfery, is to prevent their Phooting their roots too far into the ground, which would render them very difficult to take up without damaging the root, and more tedions to plant out.

Various forts of vines flould not be planted in one vineyard, if it is meant to make good wine. The moft experienced vignerons affert; that grapes of one fort make the beft wine; that if they are mixed they hurt the wine, by keeping it conftantly upon the fret by means of their different fermentations. Be that as it may, we fhould recommend this practice for reafons that operate more ftrongly, which are, that the more fimple and pure wine is, the thore perfect it is in its kind. Three different wines may be all good in kind, and very agreeable whilf diftin $\ell$ t, but when trixed together become quite the reverfe, and the whole be fpoiled. If a vineyard contains one acre of ground, it fhould tiave but two forts of grapes in it, if it is meant to make a profit of it by flling the twine; if it contains two acres we advife to have fotr forts in it; and if it contains three or four acres we fhould not chnfe more : but if it contains fix, eight or ten acres, perhaps it might be proper to have a greater variety ; but then preference fhould be given to thofe, kinds that make the beft wines; ath fuct as do not come in at the fame time, from

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whence the planter would reap many advantages:-he would not be over hurried in the time of vintage, nor run the rik of having fome fpoil upon his hands, whilft he was making up the reft; again, if a feafon proved unfavourable, and fome were cut off by the inclemency of the weather, others, that were later ripe, might efcape the injury. It is certainly beft to plant each fort in a diftinct quarter by itfelf, to avoid confufion, and to reap every advantage.

The next thing to be confidered is the quality of the vines to be made choice of. This mult be limited and adapted to the climate where the vineyard is planted. The moft hardy hand earlieft ripo will beft fuit the moft northern States, we mean thofe of NerrHampfhire, Maffachufetts, Rhode-Illand, Connecticut, \&c. The vines proper for thefe countries are,
The black aisernat, The blue clufter, The black Orieans, $\quad$ The miller grape. Thefe four make the beft Burgundy.

The black Hamburgh,
The red Hamburgh,
The white mufcadine, The mufcadella,

The melie blanc,
The white Morillon,
The white auvernat,
The grey auvernat.

All thefe are ripe early in September.
All the foregoing forts will do very well for New-York, NewJerfey and Pennfylvania; we mean for the clear and open parts of thefe countries; to which may be added the following forts, which are recommended for trial, they being more tender, but ripen in Septemper; they fhould be planted in a warm part of the vineyard: The chaffelas blanc, called the The red frontiniac,
royal muicadine, The malvois or malmfey The grey frontiniac, The black Lisbon, The white Libbon, The chaffelas noir.
All the foregoing forts will do very well for the States of Maryland, Virginia and North-Carolina, to which are added the following, and recommended for trial, but they muft have a warm place:

The white frontiniac, The malmey mufcat, The claret grape of Bourdeaux, The white Oporto, The black Oporto,

All the above-mentioned forts will do well in South-Carolina, and in the colonies ftill farther fouth, particularly in the rich foils
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The made to ma may be and'fr very m fit for lateral barren prodic teemin apart and ha down ${ }^{\circ}$ firm: and fpc hafting
of Kentucky, \&c. To which may be added the following, as being still more tender and later ripe :
The raifin mufcat, . The white mufcat of Alexandria,
The Alicant añd Malaga raifin The gros noir of Spain, The St. Peter's grape. ${ }^{\circ}$
The red mufcat of Alexandria,
In many parts of Virginia, North and South-Carolina, and in Georgia, what ftrength nature afforded the foil has been exhaufted by tobacco, Indian corn, rice, \&c. However, thofe grounds that lie near to rivers and creeks, may eafily be recruited; for thefe rivers abound with rich mud, which is the beft kind of manure for fuch lands, and it would be no great expenfe to procure a fufficient quantity of it to cover a piece of ground large enough for a vineyard, efpecially as it may be done at fuch times when other bufineft is not very urgent : this mud munt lie fome time upon the ground before it is mixed with the foil, at leaft a fummer and a winter; for at firft it will bake very hard, and be very crude; but the winds, dews, rains and frofts, with the help of the fun, will fiweeten, mellow, and bring it into a proper order; then it muft be equally fpread and well mixed with the foil.. Thus may the land be recruited, and kept in good heart, from time to time, and from a barren ufelefs piece of ground, it may become profitable both to the owner and his country.

The nature and quality of the vines being confidered and made choice of to fuit the country, the next thing neceflary is, to make choice of fuch parts of a vine, for cuttings to plant, as may be moft likely to grow and flourifh, and alfo to produce healthy and fruitful vines, on which the fuccefs and profits of a vineyard very much depend. All parts of a vine are not equally good and fit for plants; all branches that have not borne fruit, all fuckers, lateral and fecondary branches, and efpecially the long running barren branches, flould be avoided; thefe different forts fadom produce fruitful vines; the cuttings fhould be choien from the teeming part of the vine, from among thofe branches that were fet apart for bearing fruit; and among thefe fuch as are fhort-jofnted, and have been moft fruitful the laft fummer: they fhould be cut down clafe to the old wood, for there the wood is ripet and moft firm. The upper part of the fame branch is lefs mipe, more loofe, and fpongy, more apt to fail, and very feldom makes fo firm and lafting a vine. However, where vines are fcarce, and men have $3 \mathrm{~N}_{2}$
not thefe advantages of cheice, they muft do the beft they cant Thefe branches mut be trimmed and cleared from the lateral or fecondary branches; but in doing this, great care muft be taken not to wound the buds or eyes, which a carelefs hand is very apt to do. If the bud be bruiied with the back of the knife, fo that the cotton that lies under the thin bark that covers the bud, and is wifely intended to preferve it from the injuries of the weather, be rubbed off, the bud will perin. : Therefore, as the buds lie clofe to thefe lateral branches, and are in fo much danger of being wounded, it is beft and fafeft to cut the branches off a little above the height of the bud.

Thefe branches thus trimmed fhould remain whole and at full length till the next April, which, in the northern States, is the beft time for planting. They floould be feparated from the plant fome time in September, or as foon as the vintage is over, that being the beft time for the trimming of vines, becaufe the wounds which the vine receives are healed up, and fecurely clofed from the feverity of the winter feafon. If this work is left i! 1 l February or March, the vine fuffers. by the frefh wounds in long rains, fleets and frofts that follow; or "if the weather is favourable, it grows faint and is ex. haufted by excefs of bleeding.

The beft way for preferving the cuttings through the winter, and which we therefore recommend for a general practice, is as follows: At or near the north-weft corner of the vineyard or garden, the fence being good and clofe, a fmall trench fhould be dug five or fix inches deep and wide, and fufficiently long to contain all the branches. In this they fhould be planted thick and clofe with the butt ends down, and the trench filled up with the earth that came out of it, prilled down well with the hand all about the bottom of the branches; the earth fhould rife two or three inches above the furface of the ground, to prevent the water from fettling about the vines, which would rot them. If the cuttings are of various forts the planter fhould be careful to diftinguifh them from each other by their proper names. Before the planting of the vines in this manner, two or more crotches, accordingsto the quantity of vines, floould be driven down at about three feet from the trench; and parallel with it, upon which poles fiould be laid to fupport the upper part of the branches about twelve or fifteen inches from the ground; thus they will lie floping without touching the ground, which preferves them from growing mouldy and from rotting. The
vines then fhould be covered with ftraw, laid lengthways upon them up and down a little beyond the trench, fo that the water is carried off beyond the foot of the vinss by this ftraw roof; and yet the ftraw muft not be laid on too thick, left it continue moift too long and occafion mouldinefs. Acrofs the top añd bottom, poles should be laid, and fartened down to prevent the ftraw from blowing away. Thus they fhouid remain till fpring.

In the beginning of April, when ready for planting, the weather being moderare and calm, the froft out of the ground, and rature teeming with frefh vegetation, then the branches fhould be cut for planting: If one cutting from every branch is fufficient for the pur: porfe, then the lower part fhould be cut about twelve or fourteen inches jong. But as it is mof likely that the planter will not have enouga of thefe, he muft make two or three cuttings of every branch, not lefs than a foot long; and having a trench made ready, place them in it clofe together, the butt or lower end down, and cover them up with earth to the upper eye, till he is ready to plant, carefully placing every fort by themfelves, with a label denoting the kind. This direction is calculated for New-York, New-Jerfey, and PennfyIvania. The more northern States will be a month later, and the more fouthera colonies will be at leaft a month, fome two anonths earlier; planters muft therefore conduet themfelves accordingly. In thefe laft States, we would recommend the cuttings to be longer, that they may be planted deeper, the better to preferve the vines from exceffive heats and droughts.

The ground being well manured, and brought into good heart if old, or being naturally rich if new, and having been, at leaft trice, deep ploughed and well harrowed the fummer before, in the fall of the year it fhould be deep ploughed the third zime, acrofs the hill or rifing ground, and lie rough juft as it is pioughed allwinter, which will greatly prevent wafling, and the frofts will mellow it and prepare it the better for vegetation.
In the fpring of the year, as foon as the ground is dry, it fhould be well harrowed both ways, and with a fharp iron tooth harrow laid down frooth and even; and this general, eaution thould be attended to, never to meddle with the ground of the vineyard when it is wet, or even moift at top, nay, the planter fhould avoid as much as poffible walking in at fuch a time. His own experience will foon teach him the reafon of this caution; for he will find, that the

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Fighter and more open and loofe the foil of a vineyard is kept, the more his vines will ficurifh, and the more fruitful they will prove.
When the ground is in proper order, the planter fhould provide $a_{0}$ frrall ftake of four feet long for every vine, and begin to lay out his vineyard in the moft regular manner the nature and fhape of the ground will admit of. If he means to plough and harrow his vineyard with a fmall fingle horfe plough and a finall corn harrow, he' fhould leave a border of ten or twelve feet on each fide of every fquare to turn the horfe upon, left he tramples upon and deftroys the outfide vines. There will be no need of fuch bordérs along the upper or lower fide of the fquares, unlefs he chufe it for the fake of regularity; becaufe the vineyard fliould never be ploughed up and down hitl, but tranfverfely, for if it is it will be gullied, and the fich foil wafhed away by hard rains.

The following method of laying out a vineyard, we think, is as eafy, as regular and as expeditious as any, for a long fquare or a four-fquare piece of grquad: Lay it out in as many fquares, at leaft, as there are different kinds of grapes to be planted : the fquares being laid out, plant the young vines in regular order, at about eight feet diftance from each other. This we think the belt diftance for them to fand, but variations, may be made according to the will of the planter.
If the vineyard is large enough to divide into four fix or eight fquares, or more, according to the different forts of grapes defigned to be planted in it, and not ftraitened for room, the planter will find it very convenient, on many occafionss to have crofs walks. of twelve feet between the fquares, not only to turn upon when ploughing, but for carting in of manure, and placing it conveniently. for danging the vines, which will be a faving of tabour, befides being attended with many other advantages.
The ground being prepared, and having as many vine cuttings as can be planted in half a day, fooking in rich dung water, in a paif, which ferves beft to keep the plants upright, the butt ends being down, holes mun be dug at proper diftances larger or fraller, zecording to fancy or judgment; for it matters not fo they are deep erough to contain the plant. And here we win to clear up a point, with bas led many people into gaifakes and rendered this work exceeding tedious, that is, the throwing into the holes, in which the rines are planted rich mould mixed with old dung thinking that thts muift
mont be a great advantage to the vine: this is a miftaken notion, for as foon as its roots ftrike beyond this rich mixture, into the common foil which is many degrees poorer and colder, the confequence is, the roots recoil and flarink back at coldnefs and poverty they had not been ufed to, and the vegetation is fopped, and the plant degenerates and becomes barren; and if the plant is examined at bottom, it will be found, that inftead of extending its roots to their nfual length, it has hot out a great number of fmall fibres like threads, which extend no farther than the good mould; and thefe being quite infufficient to anfwer the demands of nature, the plant perifles, or remains in an inactive and barren flate. Whereas, had the vine been planted in the common foil at firf, it would have met with no alteration, no fudden change to check its growth. This is fufficient proof, that the foil fhould be well mixed and good, for the vine profpers in a warm, fruitful foil, but proves unfruitful and perifhes in a foil cold and barren: yet a foil may be too rich, or made too rank by manmre, and this extreme fhould alfo be axoided. But to return to planting the vines; the holes being dug according to the mind of the planter, a ftake fhould be driven on one fide of the hole, and the vine then planted with the foot fet forward from the ftake, and bent a little, fo as to bring it gently up againft it; but one eye only fhould remain above the furface of the ground : the bud or ege mult not touch the ftake, but look from it: the earth, mixed well together, fhould be preffed gently about the vine, till the hole is almoft full, and the reft thrown in lightly without prefing, fo that it may rife up to the eye ot the vine, which ought to be about two inches above the common furface. B/ this means the vine will be preferved from drying winds and the hot fun till it begins to grow. Some place four or five paving ftopes labout, the foot of the vine, not fo clofe but that the roots may moot out between them, and thefe they fay, and we think with zeafon, condenfe the air in hot dry feafono, and nourily the vine rith moifture and cool and refreth it when parched with excelfire heath In the northern colonies, the visesshould be planted on the, foush fide of the itakes for the faise of the fun : in the fouthera colanies, they hould be planed on the north fide, to avoid too great heat. The upper eye only hould thoot out branches, from, which the head of the vine is formed If any fhoots fhould rife frombe low, which fometimes is the cafe, the foonet they are remoted the better; thefe are called fuckers, and very much exhauft the vine.

When the vineyard is planted, if there are any cuttings remaining, they fhould be planted in a nurfery, or aloing the north fide of the Stakes, for there will be oceafion for them, as many of the vines will fail, and the fooner their places are fupplied the better. If fome of the vines do not fhoot till July, they fhould not be given up, as they may grow notwithftanding; many have not fhot till Auguft, and yet have done well. Filling up all the vacancies, where the vines have failed or mifcarried, is abfolutely neceffary to be done as foon as poffible, either the fall after the vines were planted, with plants from the nurfery, if the planter has any growing; or the next fpring, with cuttings, which is the beft feafon for planting them; for having

* no root, they fuffer greatly in the winter fedfon, and if planted in the fall môt of thein perifh. If the vacancies flould by any means be neglected for three or four years, the planter will find it very difficult to raife thrifty and flourifhing vines in fuch places afterwards; becaufe, by this time, the neighbouring vines haying fhot their roots all round the fot where the poung vine is to be platited, will fo draw away the nourifhment, and entangle the fmall tender roots that firft floot from it, that it will not be able to thoot forward and flourifh. Some, for this reafon, plant two cuttings in a hole, left one fhould mifcarry. To this the chief objection is, that hereby the regularity and uniformity of the vineyard is hurt; many of the vines ftanding out of the line. For in a well-regulated vineyard the vines fhould be always arranged in regular rows. If fome of the vines prove weak the firft fummer, and do not recover firength the fecond, though manured and cultivated well, they mould be rooted out, (for in fach cafe they very feldom are worth raifing) and healthy vines planted in their ftead out of the nourfery.

In digging up the plants from the nurfery, care frould be ufed that they may be taken up without wounding or braifing the rooks, and having a pail or fmatl tub half full of fich dung water; the plants foold be put with the roots downward into that, to preferve them from the fun and drying winds, which would foon patch atrat dry up thefe young tender roots and kill the vite Whent oplanter has day tip about a dozen or twenty platis, he footid then procedd to plaming which muft be done jn the followng maner. The thotes being dug deep enough and fafficithy wide for the roots to be Lpread in at full tength, tome loote earth thouta fethrown/in, and
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fpread over the bottom of the hole. The plant fhould then be fixed near the ftake, fo high that the little branches may rife an inch or two above the furface of the ground. The roots, it will be perceived, for the moft part grow in rows, one above another. The upper roots of all, which are called the day roots, muft be cut away ; the under roots of all muft then be fpread at full length, and covered with earth, then the next muft be ferved in the fame manner, and fo on till all be regularly extended and covered. This is purfuing nature, which is generally the beft. director. The earth alfo by this means will better fettle about the roots, and the vines in the fpring will grow and flourih as if they had not been moved or tranfplanted.

The vines being all planted as above directed, and the vine cut- : tings, with one bud only above ground, and that almoft covered with light earth, to preferve them from fuffering from heat and drying winds till they begin to grow; this upper bud only will floot out branches, and the lower ones will throw out roots: and this is much better than having two or three buds above ground, and branches growing from them all, which only ferve to weaken the vine, and hinder the forming of a good head, which is the firft and chief point to be well fecured.
We now proceed to the management of the vine in its infant fate, upon which will very mach depend the after fuccefs of the vineyard.
There are but two ways of forming and managing of vines to advantage for vineyards, by ftakes or efpaliers. As for wall fruit, the vines that are fixed to walls muft be managed in the fame manner as thofe which are defigned for efpaliers, that is; the head of the vine is at firft formed about three feet from the ground. But this we fhall particularly explain when treating of the management of vines. for efpaliers; we fhall begin with the proper cults.e of vines that are defigned for ftakes.
In this cafe, the head of the vine is formed near the furface of the ground: this method is now generally practifed throughout wine countries, and indeed it is the only: method proper for countries where the frofts in winter are fo hard as to hurt vines, by which means the next year's crop is deftroyed. There is no way to prevent this but by covering the vines in winter, which cannot be done when fixied upon frames or efpaliers without great difficulty and labour, as well as danger to the vine.
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The firft fummer after the vine is planted, there is nothing to do, but to tie up the little branches to the ftakes with a foft band as foon as they are grown about a foot or fifteen inches long, which will fave them from being torn off by hard winds, which would . endanger the vine; befides, they grow the ffronger and the better for it, and are out of the way of the hoe, the plough and the harrow. The ground fhould be kept clean and free from weeds and grafs, for they are great enemies to vines, and if the ground is kept mellow and loofe, the vines will grow and flourifh the better. If the planter has any litter, fhort ftraw and chaff, the flives of broken hemp or flax, the chaff of flax feed, the duft and chaff of buck wheat, and the ftraw trod fine with horfes when it is dry, any or all of thefe fpread over the vineyard after it is hoed or ploughed and harrowed, will keep down the grafs and weeds, keep the ground moift and light, and greatly preferve the good foil from wafhing away. If this is done the firft three or four years, it will greatly forward the vines, bring the ground into good heart, and finely prepare it to produce good crops, by keeping it loofe, airy and light.
In the month of September, when the leaf begins to wither and fall off, which is the beft time for trimming of vines, the planter flould cut down all the branches to one good bud each, and remembering, that the lowermoft bud next the old wood is called the dead eye, and never reckoned among the good buds. When the vines are thus trimmed, a careful hand fhould take away the dirt from the foot of the vine, about four inches down, and cut away all the upper roots that appear above that depth. Thefe fhould be taken away every fall for the firft three years, The beft way is, not to cut them off clofe to the body of the vine, but about a ftraw's breadth from it, as they will not be fo apt to grow again aswwhen cut clofe. Thefe upper or day roots greatly weaken the vine, and hinder the lower roots from extending and firmly fixing themfelves below, on which greatly depends the ftrength, firmnefs and durablenefs, of the vine, and alfo its fruitfiulnefs. Befides, by the roots running deep, the vine is preferved from perifling in long; tedious droughts. The foot of the vine fhould be left open after the day roots are cut away, that it may dry and harden, till the hard frofts come : then the holes fhould be filled again, and the head of the vine covered with chaff and fhort fraw mixed, or with bog or falt hay, or with horfe litter that is free from dung and
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grafs feeds; for thefe fhould be carefully kept out of a vineyard, which will fave the labour of rooting out the grafs that would fpring from them. Some cover the head of the vine with earth when they fill up the holes; but this is wrong, as it greatly endangers the vine, the ground, in warm rains, moulding and rotting the vine. For the fame reafon, the planter flould fuffer no dung to be among the ftraw, hay or horfe litter, with which he covers his vines, as the beat of the dung, in warm rains or muggy warm weather, will mould and rot them; the cooler and drier they are kept, the better. When the planter trims his vines, if he finds that any of them have failed, which is very cormmon, he fhould plant others in their room immediately, if he has any plants of the fame fort growing in his nurfery ; if not, he flould, without delay, provide cuttings of the fame kind, and preferve them till fpring, as before diretted, and plant them in the vacant places, that the vineyard may be full and complete as foon as poffible.
The fecond fummer the planter will find more branches fhooting from the heads of his vines than did the firft fummer ; and here the fkill of a vigneron is neceffary for forming the head in the beft manner. The beft method is to let the fhoots grow till they are ten or twelve inches long, then to chufe eight that are flort-jointed and much of a fize that grow on all fides of the vine, and ftrike off all the reft. If one branch among the whole number appears much more thrifty than the reft, the planter may perhaps be tempted to fave it; . but in this cafe his eye Mould not fpare, for it will draw to itfelf the chief nourimment of the vine, and deftroy, or at leaft much weaken the reft of the branches, and after all will bear but little fruit, for the Mhort-jointed branches prove the beft bearers, and thefe ftanding on all fides of the head, preferve the vine in full frength and vigour. For this reafon, the rounder the head of the wine is formed the better: if the branches are fuffered to grow only from one fide of the head, the other fide fuffers greaty, and is apt to perifi.
This year there fhould be two ftakes to a vine, one on each fide, $t 0$ (which the branches fliould be faftened; by this mearis they are Ipread at a diftance from each other, and grow the fronger; the fun, air and winds, come to every part, the wood ripens well, the buds fill, and they are the better prepared to become fruitful in due time: whereas, when they are huddled all together, and fattened up to one ftake, they fuffer greally for want of the fun and air to
dry them, after rains, milts and heavy dews; and in clofe, damp weather, they often mildew and rot. Another reafon for tying up the branches fingly to the-flakes on each fide, as foon as they are long enough, is to prevent them from being torn off by hard winds, which would ruin the vines. The vineyard fhould always, be kept clean and free from weeds and grafs; and the dryer the ground is, and the hotter the weather, the more effectually they are deftroyed, by hoeing , ploughing and harrowing. But the planter fhould remember, never to meddle with his ground when it is wet, for in fuch cafe he does more hurt than good.

This fecond fummer the main branches floould be fuffered to grow about five feet longs, and then the ends of them be nipped off, in order to keep them within proper bounds, and to hinder them from growing wild. The lateral or fecondary branches thould be nipped off at the end when they are about a foot long, the nephews alfo fhould be nipped off when they are about fix inckies long. This is much better than the taking all thefe fmahler branches clean away, which is the practice of fome; for when thefe are taken clean away, the main branches evidently fuffer, they grow flat, and appear diftorted; which plainly fhews, that nature is deprived of fomething that is effentially neceffary to her well being. It is quite neceffary to nip off the ends.of the main branches; when they are grown abobt five feet long, as they grow the larger and ftronger, the wood rijens the better, the lower buds. are better filled and prepared for bearing fruit. Befides, the vines: become habituated to a low, humble ftate, and their tendency to climb and mount up above every thing that is near them is checked, by which means they bear fruit within reach. Some time after the tops of the main branches are nipped of, they will fhoot out a fecond time, and then they generally throw out, from neat the end, two branches inftead of one; thefe muft be nipped off; at the fame time the lateral or feeondary branches muft be looked to and nipped, if any of them are fhooting out again.
In the fall of the year, as foon as the leaf begins to wither and fall off, which happens earlier or later, according to the weather, the branches fhould be again cut down to one goöd bud each, the earth taken away round the heads of the vines, as before direited, the day roots cut off, and the vine managed juft in the fame manner as in the fall before. As fome of the forward vines will bear fruit the third year from planting, and ass it is natural for the planter to

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Feire fruit, and épecially to know what fort, and how good, the different vines will bear, to fatisfy his curiofity, we would advife him to fet afide two or three of each fort of his moft thriving vines for that purpofe, and inftead of cutting down all their branches to one bud each, like the reft, leave two branches on each of thefe vines, with two or three good buds on each, which will fhew fome frut for the fatisfaction of his curiofity. But we would perfuade him to prevent the reft from bearing fruit till the fourth year, and the weaker vines till the fifth, for the vineyard will make him ample

- fatisfaction for this piece of felf-demial, as it greatly weakens a vine, and indeed any other fruit tree, to bear when fo young; and however fond moft men may be of their vines bearing much fruit, the everbearing of vines is allowed, on all hands, to hurt them greatlyTo prevent which, in wine countries, where it is common to leafe out vineyards to hufbandmen, whom they call vignerons, they have very frict laws; obliging them to leave only four, fix, or eight bearing branches on a vine, according to the age of the vineyard, the ftrength of the vines, the goodnefs of the foil, and the cuftom of different countries where good wines are held in repute, to prevent their hurting the vines, and the reputation of their produce. Thefe vignerons are likewife obliged, after three fruitful years, if fo many happen fucceffively, to let their vineyards reft one year without bearing fruit, that they may have time to recruit and gather frefh ftrength.

The third fummer the planter flould manage his vines in the fame manmer he did the fecond, tying up all the branches to the ftakes, one above another; only of thofe vines that are to bear fruit, the fruit-bearing branches mould be tied up above the reft, that the fruit may have the benefit of the fun, the air and winds, all which are neceffary to bring the fruit to maturity. This year a third ftake fhould be provided, which fhould be drove down in the fpring, juft on the north fide of the vine, upon a line with the reft. To this ftake the branches that bear fruit, there being but few of them, will be beft faftened, becaufe there will be the more room for the branches of referve, which are to bear fruit the next year, to be diftinctly faftened to the fide ftakes. Thefe branches of referve are now of great importance to the owner, as the next crop will depend upon the right management of them They fhould, therefore, be carefully tied up at proper diftances to the fide ftakes, that they may grow well, that the wood may ripen, and the buds
may be well filled. When they are grown above five feet long, the ends muft be nipped off, and the lateral branches kept fhort, and the nephews reftrained, if they grow too long. As to the few vines that bear fruit this fummer, the fruit-bearing branches froould be nipped off Iive joints above the fruit, and the fide branches and nephews kept fhort, as above directed.

In the fall of this third fummer, two of the beft flort-jointed branches of referve fhould be faved, one on each fide of the head of the vine, for bearing fruit the next year : the reft fhould be cut down to one good bud each. If fome of the vines be very ftrong and flourifhing, the planter may preferve four branches for bearing fruit, but by no means more, one on each quarter of the vine. As so the branches on the few vines that bore fruit this year, they muft be cut down to one good burd each; for the fame branch fhould never be fuffered to bear fruit two following years, unlefs the trees fall fhort of branches of referve, in that cafe the planter muft do what neceffity requires, and let the old branches bear a fecond time, but they feldom or never bear large clufters, nor fair fruit. Thofe vines that bore fruit this year, flould not have above two branches on each left for bearing fruit the next year, by which means their ftrength will be preferved from being exhaufted when young; in confequence of which they will laft the longer, and bearfruit the more plentifully. The reft of the management is, the fame with that of the laft year; except that fome time in the latter end of November, or fomewhat later, if the hard weather keeps, off, a fmalltong trench on each fide of the vine fhould be dug with a hoe, and the branches that are kept for bearing fruit, laid down gently into them, and covered over with the earth. The part which appears above ground mult be weil covered. widh ftraw, bog, or falt hay; and, indeed, if the whole that is buried were alfo covered in the fame manner, with ftraw, \&c. it would be beft; for the branches being of an elaftic nature, they are very apt, upon the thawing of the ground, to rife with their backs above. the ground, and remain expofed to the weather, by which means the crop is often loft, which a fmall covering of ftraw or hay will prevent. If any of them fhould be too fiff to bend down, then ftraw fhould be bound round them and the ftake.

In the fpring of the fourth year, the branches that have been preferved for bearing fruit, fhould be cafefully trained up to the fide frakes; the higher the better; the branches that fhoot out from the head this fring, which are called branches of referve, and are de-
figned to bear fruit the next fucceeding year, fhould be tied up to the ftake, if there is room, for oftentimes the fruit-bearing branches occupy the middle as well as the fide ftakes, and efpecially in a plentiful year. The management of the vine in its bearing ftate calls for a clofe and particular attention. Some gentlemen, and thofe who have written beft upon this fubject, recommend the taking away all the lateral or fecondary branches and the nephews, clofe to the body of the fruit-bearing branch, and to leave only the main leaves of that branch, thinking, by this method; that all the nourihment of the vine is thrown into the fruit. They alfo order the top of the branch to be taken off within three joints of the uppermoft clufter of grapes. Others againare for following nature, and fuffering all the branches to extend themfelves as they will. Thefe we look upon as two extremes, and think that a middle way is the beft, moft rational, and fafeft. The latéral branches, the leaves and nephews, are fuppofed by naturalitts to draw off the crude and thin juices, rand to hinder them from entering and fpoiling the fruit, and alfo ferve for the circulation of the air through all the parts which is neceffary to vegetation, and for bringing the fruit to perfect maturity. That this is fo, or how it is, we are not fo wellacquainted with the operations of nature as to determine; but this we know, that when thefe fmaller branches are taken clean away, the main branches, inftead of growing round, full and plump, which is their natural ftate, become hard, flat, and diftorted, and have an unnatural appearance. Befides thefe branches, when kept within proper bounds, ferve to fhade the fruit from the fiorching rays of the fun, and to fcreen them from violent winds from hail and beating rains, from damps and fogs and cold night dews, which are all injurious to the fruit, as well as the cold dry north-eaft winds, and the cold driving northeait ftorms. But this fhould not lead into the other extreme, for if the vine is left to itfelf, and all thefe branches fuffered to grow, it will run wild, and ruin itfelf by its own excefs. This is the method of managing vines when the head is formed near the ground, and which is now practifed in moft vine countries in vineyards, except fome parts of France, where they are ftill fond of efpatiers, and this method muft be continued as long as the vines laft, which moft writers affirm, will be above one hundred years. As to the management of vines in gardens, againf walls, and for forming of flsady places, and many other waye to pleafe the humour and fancy of the ownet that is not to be regarded, it has no relation to vineyards, though
the leading obfervations refpecting cutting, \&cc. will equally apply to them.

We have been informed that it is the practice of fome to cut all the branches down, and to truft to new fhoots for bearing of fruit; and we have read the fame account in a treatife publifhed by James Mortimer, Efq. fellow of the royal fociety, in the year 1707 , but thefe accounts are fo vague, fo general and fuperficial, without entering minutely into any particulars, that no dependence can be placed upon them; nor can any man from the account form a judgment of the manner of doing it. However, from thence we have taken a hint, and propofe a method which may be worth taial. In the fall of the third year of the vine's age, inftead of faving two or four branches for bearing fruit, cut down thefe to two buds each, aned the reft cut down to one bud each; the upper buds of thefe branches that have two, are defigned to bear fruit the next year, the lower buds and the buds of all the reft are defigned for fruit the year after, and therefore if any fruit fhould appear upon them, it fhould be taken away as foon as the chlufter appears; in the fall of the fourth year, all the branches that have borne fruit fhould be cut clean away, and those oniy left that did not bear fruit; and then, according to the freugth of the vine, as many of thefe may be cut down to two buds, as in jodgment it is thought the vine-ought to bear, the reft fhould be cut down to one, always remembering that the branches that have But one bud, and the under bud of thofe that have two, are to bear no fruit. When the vines come to be fitrong and able to bear it, all the branches fhould be cut down to two buds, and then there will be eight bearing branches in one year, which are quite enough for the firongeft vines; however, if the planter has a mind to ftrain his vines, and to try how much they will bear, he may cut as many branches as te thinks fit down to three buds, two of which may bear fruit, while the under buds are kept for branches of referve. In the fall, all the fruit bearing branches fhould be cut clean away, for no branch-fhould We left to bear for two years. If this method fhould fucceed; and : the planter think it preferable to the method firft laid down, we , mean that of preferving branches of referve to be laid down and coweredit winter, which is the German method, and the general practice of the Rhine, \&ce then, in order to bring the older vines into this me*hod, he finould cut down the fruit-bearing branches to one bud the firft Fear, and the branches of referve to two or three buds each, as the sipes appear able to bear is. In this the planter mult form his Judg-
ment from the ftrength of the vine, the goodnefs of the foil, the dif tance of the vines from each other, and the quantity of fruit they have borne the three preceding years: for vines muft have time to reft and recruit, if they are meant to laft, and to bear again with vigour.
For the covering of thefe vines in the winter feafon, we would advife a handful of foft hay, that is free from grafs-feeds, to be laid on the head of the vine, and a flight box made of rough cedar boards, or of pine, he put over the head, which will be a fafe and fufficient covering: otherwife a fmall fheaf of fraw, bound well round the fâke, and the bottom brought all round the head of the vine, and fecured by a band from blowing open, will do very well. The vines fhould not be covered till hard weather is ready to fet in, and they fhould be dry when covered.

Defore we proceed to the management of vines for the frame or efpalier, it may be neceffary to offer a few obfervations of a general nature, which all who grow vines will find it their intereft to attend to.;

When vines are trimmed in the fall, which they ought to be, as foon as the vintage is over, or as foon as the leaf withers and falls off, they feldom bleed, and never fo as to hurt them. If vines have befn. neglected and not trimmed in the fall, and this work muft be yone in the fpring, it fhould be done in February, if good weather happens, or tarly in March. If it is done later, they will bleed too much, and endanger the crop. Searing the wound as foon as it is made with a hot iron, it is faid, and we think wilh reafon, will prevent the bleeding. In trimming, keep about two inches from the bud, or balf way between bud and bud, that the upper bud, that is left may be free from danger. The rule is, to cut floping upward, on the oppofite fide to the bud, but this is no kind of fecurity to the eyes below. If, therefore, fearing every wound with a hot iron be thonght too much. trouble, another remedy is, to wah the branches that are wounded and bleed, and efpecially the buds, with a rag dipped in warm water, without touching the wound, which in eight or ten days will ftop of itfelf; the liquor"forming a ftiff jelly upon the wound, like coagulated blood, and drying by degrees, heals up the wound. The wafhing muff be deferred till they have done bleeding : unlefs this is done, the buds will be endangered. For fo glutinous is the fap, that it binds up the budd it reaches, that the leaves cannot open and unfold at the time of vegetation. In cutting of large limbs from old vines, if fometimes happens that ants fall upon the pith ${ }_{2}$ eat their way in Vox. $\mathrm{III}_{4}$
and make a hollow, where the water fettles and rots it. In this care the remedy is, to cut fuch branches clofe down to where it is folid and green, and it will bark over and lieal.
It is common for large buds to fhoot out two or three branches each, but only one on each fhould be fuffered to grow; if fruit is expected on them, the planter fhould be careful not to frike them off till he knows which is moft fruitful. Vines that are clofe planted in a vineyard, cannot be expected to bear fo much fruit as fingle vines, or as thofe that are planted at a diftance. Their roots are too much confined, fo that they cannot gather nouriflment in fo fmall a compafs of ground, to fupport and bring to perfection a large quantity of fruit; and this is a fufficient reafon for reftraining them, and for limiting the number of bearing branches, if it is meant to make good wine, to keep the vines in full vigour, and to preferve them for many years; but the deficiency is fully made up by a greater number of vines, and the planting them clofe, enables the planter the better to keep them low.

Vines that bear black or red grapes generally fhoot forth a greater number of branches, and more vigorous, than thofe that bear white grapes, and therefore the latter require more caution in trimming, and more care in the cultivation and management of the foil, that it be kept clear and in good heart.

When vines have been covered with earth during the winter feafon, they fliould not be uncovered in the fpring, till the hard frofts are over, and then it fhould be done in a fair, warm day, that they may dry before night, for if they flould freeze before they are dry, it would greatly hurt, if not ruin the crops

In tranfplanting vines or trees öf any kind, it has by long experience. been found, that removing them in the fall, after the leaf is fallen, is much furer and fafer than doing it in the fpring: for if trees are well ftaked, fo as to ftand firm againft hard winds, the ground win be fo well packed about the roots, that they will grow in the Jpring as if they fad not been removed, and are in no danger, if a dry feafon flould happen (efpecially if fome horfe litter or old hay be thrown round them in the fpring, fo as not to touch the ftem.) Whereas if they are removed in the fpring, and a drought fucceeds, before the ground is well fettied about the roots, many of them will mifcarry:

As vines are beft planted upon rifing grounds to prevent tog much wet, and as it is neceffary to keep the foil loofe and mellow, it - :
thereby becomes more liable to be walhed away by hard rains,: which is a great injury to a vineyard; now if by any means this.inconveniency can be avoided, it is a great point gained, and therefore it deferves the particular attention of the planter: feveral ways have been tried, fo as neither to injure the vines nor hurt the crop. The following method, where a perfon has the conveniency, will, we believe, be found effectual. Lay broad flat ftones, not exceeding two inches in thicknefs, clofe along the lower fide of the vines, after the ground has been made loofe and mellow. Thefe ftones being broad, and not very heavy, do not prefs hard upon the roots of the vines, nor pack the ground too clofe. They reflect great heat on the vine and fruit, which helps to bring it to maturity; they preferve the foil from wafling away, they keep the ground moift in the drieft times, and hinder too much wet from penetrating down to the roots near the head of the vine, which chiefly occafions the burfting of the grapes when they are near ripe, after a fhower of rain. To prevent this evil is one reafon for cutting away the day roots, which extend themfelves along near the furface of the ground: But where fuch flat fones are not eafy to be had; we would recommend fhort ftraw mixed with chaff, the flives of flax and hemp, the chaff of flax feed, or old half-rotted falt, or bog hay, free from grafs feeds, fpread thin between the rows. On the fide of fteep grounds, of hills and moun. tains, flones in proportion to the defcent, or logs of wood, where ftones are not to be had; muft be laid along the lower fide of the vines, to keep the foil from wafhing array, which otherwife it will do, to the great damage, if not the ruin of the vineyard, and cherefore in beginning a vineyard, in fuch a fituation, this is an effential part of the coft.

A vineyard will thrive the better, and the crops will be more fure, if it is well fcreened by a good fence, buildings, mountain, or thick copre of wood at a fmall diftance, from thofe points that ${ }^{2}$ lie northeaft and north; the winds from thofe quarters, in the fpring of the year, being very unfriendly to vines. But then a vineyard fhould be quite open to all the other points of the compafs; for vines fucceed beft inon open, clear, pure, warm air, free from cold damps; fogs, mifts, and condenfed air, arifing from bogs, fwamps, and wet clay grounds, and from large tracts of neighbouring woods. The Borth-weft winds in America, are, indeed, rather advantageous to a vineyard; for although they are extremely coid in winter, and occafon fevere frofts, yet as the vines are then covered, they, do them no
hatim. Befides, thofe winds are generally drying, and fetdom bring wet; in the fpring and fummer they are always coot; and help to brace up' harden, and confirm the leaves and tender new fhot branches of all trees and vegetables, which otherwife would remain Janguid and weak.

There: are three.feafons when a careful and experienced vigneron flould deny accels to his vireyard ; firft, when the ground is wet, becaufe then the weight of a man preffes down and packs the earth too clofe and hard upon the roots of the vines. Secondly, when the vines are in bloffom, becaufe if they are then difturbed by handling, fhaking, or rubbing againft them, the farina or fine duft that is formed on the bloffon, which impregnates or gives life to the fruit, is fhaken off and the fruit mifcarries. Thirdly, when the fruit grows ripe, becaufet the temptation is too ftrong toewithfand, and perfons will pluck of the faireft, ripeft grapes, whichinjures the whole bunch, and certainly is a great injury to the owner, for the faireft grapes make the richeft and fineft flavoured wines.

With refpect to the management of vines upon efpaliers, it muft be remembered, that this is a practice only fit for fouthern or very warm climates, where the-winter frofts are not fo fevere as in more northern regions; for as they are to ftand expofed to all weathers, the germ or bud, from which the grapes fpring, are apt to be chilled and deftroyed by the feverity of a fharp feafon, and efpecially by moift fticking fnows freezing hard on the branches.

The firft year the young vines are trimmed and managed in the fame manner as before directed.

The fecond year, when they afways floot forth a greater number of branches, is the time for making choice of the beft branches for ftandards; the planter flould therefore fet apart two of the beft fhortjointed branches on each vine for that purpofe, that one may be fecured in cafe the other flould fail, as thefe branches when young are fubject to many accidents.

Having chofen two branches for flandards, he fliould train them up as fraight as poffible, one on eactr fide of the ftake, to which, When they arè grown about fifteen inches long, they flould be bound with a foft band: as they grow longer, they fhould be bound a fecond and third time; and when they are grown up to the top of the ftake, which fhould be five feeshigh, the ends fhould be nipped off that they may grow thicker and fronger. When the planter has taken
away the tops of the vine; it will floot out two branches at the top inftead of one; thefe muft alfo be nipped off and kept fhort; buy. none of the tateral branches muft be taken away till the time for trimming them. In the fall, when the vine leaves begin to wither and fall, one of thefe ftandards from each vine fhould be cut away clofe to the ftock, leaving the other, which will be out of danger; all the branches and nephews muft be trimmed from it, and the top cut off within three feet and an half of the ground, leaving four buds at the top, and cutting offall the ends of the buds below them; all thefe wounds will be healed before the hard weather comes on; the two upper buds will be the arms of the vine, the two lower buds will be the two fhonlders, and juft under thefe the vine is faftened to the efpaliers; and is called the head of the vine.

The third fummer the efpaliers being regularly fet up fix feet high, in a line with the vines, the pofts being of fome lafting wood, as red cedar, locuf, or mulberry, which are ultimately the cheapeft; or for want of thefe, of good thrifty chefnut, that is not worm-eaten; and being firmly fixed in the ground, in the middle fpace between vine and vine, the rails, four in height, muft be well nailed to them, and placed on the north fide of the vines, the lowermofe about three feet from the ground, or juft beneath the lowermoft bud on the vine, the vine mult be faftened with a ftrong band to a ftake firmly fixed down near the root of the vine, and faftened to the frame near the lower rail, the four bads rifing above it. When thefe buds fluoot forth their branches, they mult be regularly trained up to the rails above, and faftened to them with a foft band; as foon as they are long enough to reach the firft above them, they muft be faftened to that, and fo to the next, \&c. as they grow, and this muft be done by a careful hand, becaufe thefe branches at firft are very tender; if they fhould be neglected till they are grown longer before they are tied, they will be ia great danger of being torn off by hard winds, which will greatly damage the vine. When the branches are grown up to the top of the frame, the ends muit be aipped off even with it, and when from the tops they fhoot forth again, they muft again be taken off and kept down even with the frame. The lateral branches and nephews alfo muft be kept within proper bounds, and not fuffered to grow too long, for fome of their frde branches will fteal away to a great length, and rob the vine of its ftrength. If any fruit thould ap; pear this year, which may happen, it fhould be taken away as foon as
it appears, and felf-denial will be amply refvarded the ficceeding year.

In the fall of this third year, the lateral Bränches and nephews muft te carefully cut away from the main branches, fo as not to hurt or nob ayainft the lower buds with the back of the knife; which is frequently done by cutting off the branches too near the germ or bud. For if the thin bark that covers the bud be rubbed off, under which is a foft warm covering of a kind of cotton; to preferve it from cold; the wet gets in, freezes and deftroys the germ: The four main branches that fprung from the four buds; fhould now be cut down to two good buds each; befides the lower bud next the old wood, which is never fooked upon as a good bud, though the planter will be obliged fometimes to make ufe of it: In cutting off the main. Branches, care flouk be taken to cut llanting upward, fo that the *ound appears in the flape of the nail of a man's finger, and the flope finould be on the oppoifte fide of the bud, that if it fhould bleed it may drop free of the bud; this is the rule on which we have given our opinion before. In catting, care fhould be taken not.to approach too near the bud that is left, left you endanger it, by letting in the cold air and wet upon it, before the wound can heal::

Thechief point in managing thefe vines, is, the providing branches of referve for recruiting the arms in fuch manuer as to confine the vine within the compafs of the frame, for if new arms are raifedfrom the old ones, the wine will foon outhoot the frame. The planter muft, therefore, feek for new arms from the floulders; if a branch grows in a proper place, any where between the arms and the head, and happens to be broken, it fhould be cut down to two or three good bads, as foon as it is difcovered : this is called a keeper, and very welk fupplies the place of a branch of referve.

We above directed to cut the four main branches that grew from the four buds, down to two good buds each, but this is defigned for the firong vines only; thofe that are weak, muft be cut down to one good bud each branch, by which means they will gather Atrength the betters and if any fruit fhould appear on the weak vines in the fourth, or even the fifth year, it frould be fruck off as foon as it appears.
i. The fourth year, when the vines are trimmed in the fall, the arms may be cut down to one good bud each, inftead of being taken clean 2way, for the vines being yet young and low, thefe two buds will in 2, manner become part of the fhoulders, being fo near them; thefe
will bear fruit the next, which is the fifth year, and then the two lower buds that grew on the branches which fprung from the floulder may be faved for branches of referve, by taking away the fruit as foon as they appear, and thefe will bear fruit the year after, which is uite fufficient.
The gixth year the planter may have three good buds on each branch for bearing fruit, and the feventh year he may have four buds on each branch, which will make eight bearing branches, which, as bcfore obferved, are thought by the beft judges to be quite fufficient for the ftrongeft vines, if it is meant to make good wine; and to this number vignerons are generally confined.
$\therefore$ Vines that are defigned for efpaliers muft be planted further afunder than thofe that are intended for ftakes, for as they rife muck higher with the ftem, they require more nourilhment and more room to extend their roots ; ten feet is by no means too much: twelve would be better.

One general rule is neceffary to be laid down in order to give young vine-dreffers a clear idea of the nature and manner of trimming vines, which is a procefs to young beginners; the young wood that grew this year, mult be preferved for bearing fruit the next year, and thofe branches that did not bear fruit are better for the purpofe than thofe that did.

When the arms have borne fruit, they fhould be cut away in the fall of the year, as foon as the vintage is over, provided there are branches of referve growing on the fhoulders to fupply their places : but if the trees have failed in thefe, notwithftanding all attempts to procure them, the planter muft then do what neceffity requires, and cnt the arms down to two, three, or four good buds each, according to the frength of the vine, remembering not to fuffer any fruit to grow on the branches that fpring from the lower bud on each old arny, thefe being now abfolutely neceffary for branches of referve, is order to recruit the arms the next jear. Accordiang to thefe rules, vizes on efpaliers muft be conftantly treated.

As fome of the fouthern States have a hot fandy foil, and are fubject to great heats and parching droughts, we fhall here offer a feut thoughts and directions which we imagine moft likely to render the vineyard fuccefsful in thefe hot parching countries.
Fiff, we think it will be found neceffary to flade the young vines the firt two or three years, during the hot dry feaions, by driving down firmly in the ground branches of trees thick fet with leaves, on the

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fouth fide of the vines; thefe are better than mats, or pieces of thatch work, as the air and winds can pals more freely through them; it will alfo be neceffary to water the young vines twice a week, during the hot dry feafons, in the evening, that the water may have the whole night to foak down to the roots of the vines, to cool and refrefh them; the branches in thefe hot countries fhould not be tied up to the ftakes, but fhould be fuffered to run on the ground to faade and keep it moift and cool. Thefe vines muft be trimmed in the fame manner, as thofe which are defigned for ftakes, as foon as the leapf falls, or the vintage is over. The third year, infead of fixing ftakes to faften up the branches, fhort croches thould be droye down about fix feet afunder $r_{2}$ and pretty ftrong poles laid acrofs upon them, fo that they may lie aboutofourteen inches from the ground, and fo near to each other, that the branches of the vines may conveniently run upon the poles without dipping down and ruaning upon the ground; if the ends of the vines fhould run beyond the fides of this bed of poles, they muft be turned in and confined to their proper beds, becaure it will be neceffary to have a walk or path of two feet wide between the different beds to regulate the vines, to cut away the luxuriant fuckers, to gather in the vintage, and to trim the vines.

This bed of poles thould be fo placed, as to extend three feet on each fide of the row of vines; fo that the rows of vines flanding eight feet afunder, there will be a path of two feet between row and row for the necefary purpotes before mentioned. Particular care flould be taken not to take away too many branches from thefe vines, unlefs. there flould happen an uncommon wet feafon, norto keep them too fhort, becaufe they are defigned to faade the ground as much as poffible, in order to keep it cool and moift, which is neceffiary for the growtly of the vine, and for bringing the fruit to perfection; but then in the beginning of Auguft, or about a month before the different forts of fruits begin to grow ripe, each in their proper time, the lateral branches fhould be taken away, and the tops of the main branches cut off; but this mult be done, not all at once, but by degrees, according to the drynefs or wetnefs of the feafon, for the purpofe of doing this is to let in the fun and the air, which, at this feafon of the ycar becomes neceffary to briog the fruit to perfect maturity; the. wetter the feafon at the latter part of the fummer, the more branchcs. muft be taken away, and the fhorter the main branches muft be cat, and if neceffary moft of the leaves muf alfo be plucked off; the

## TO EUROPEAN SETTLERS.

fruit will ripen the better, and make the richer wine, and this pray be done without any injury to the vines.

The fame management with regard to the thinning the branches and the leaves at this feafon of the year, is neceffary for vines that are faftened to ftakes or efpaliers, in order to meliorate and haften on the full ripenefs of the fruit; the longer white grapes hang on the vines, even after they are ripe, if the feafon prove dry, the richer wine they make. But it is otherwife with the black grapes, when they are full ripe, they muft be gathered, and the wine made; if not, they rot and dry away fuddenly, and perifh in lefs than a week.*
We fhall now take notice of the different foils and manures that are beft for 'vineyards; a vineyard planted on a piece of good ftrong new ground needs no manure the fiff feven years. The beft manure for a vineyard is fuch as is warm and free from grafs feeds; fowl's dung of every kind, except water fowl; foap afhes, or other afthes fprinkled thinly between the rows of vines, but not too near them, for this manure is very hot and fharp; $\dot{\dagger}$ the rich foil that is wafhed down and fettles along the fides of brooks and rivers, and in many low places along roads and highways; foa fand, mixed with common foil that might be taken up along the highways, would make an excellent manure; in frort,
> * The Portuguefe form the head of the vine near the ground, but whether torough earelestnefs, the love of eafe, or the want of proper materials, we cannot deiermine, but they have a method peculiar to themfelves of managing their vines; they drive crotches jnto the ground, upon which they fix ftrong poles, which lie about three feer Grom the ground, fome more, fome lefs, according to the fteepnefs of the hill, for their vineyards generally grow upon the fides of hills and mountains. The branches of the vines, when grown long enough, they throw over the poles and faften them; they trim them and nip off the ends of the branches according to art, and in the begin-. ning of autumn, théy cut away the lateral branches and nephews at. diferent times; and by degrees pluck away all fuperfluous leaves, fo that the fruit becomes much expofed to the fun, the air and winds, that they may arrive at full maturity. They then gather them, and take away all the rottefand unripe fruit, throw them into the vat and tread them, which fufficiently done, they take them out and prets them as dry as they ean; they then turn the hufks into the vat a fecond time, and although they appear quite dry, yet they trample them over fo long, that the very huiks feem to diffolve izro wine, this they prefs a fecond time, and this is laid by for the richeff Madeira wine, which in other conntries is dafhed with water, and made into a thin wine for common -fe.
> $\ddagger$ This manure is beft fpread on the ground in the fall, that itmay mix with tia foì and be properly tempered before the heat of the next fummer comes on, otberwife i: sill burn up the plants.

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fand of every kind, mixed in lasge proportions with good foil, is very nourilhing to vines, for thofe vines produce the fweeteft and richeft grapes, and the ftrongeft and beft flavoured wines; that grow in rich fandy foils: the mortar of old buildings, that has been made of lime and fand, pounded fine; the duft of charcoal, the fmall coal and the earth that the coal kilns are covered with when burnt; the foot of chimneys; the fmall cinders and black dirt found about fmiths hops; all thefe are excellent manures for loomy or clay grounds, to warm, to open and to dry them, and efpecially if a large quantity of fand be mixed with it; creek mud, or the mud along the fides of rivers thrown on in the fall, or thrown up and fweetened all winter and laid on the fpring, is a rich manure for fandy lands, or for clay and loomy lands if mixed with a good quantity of fand. All warm rich untried earth is excellent, fo is freet dirt of cities.
The foil' cannot be too frefh for a vineyard", provided it is not too rank, and therefore a frefh new foil, that has never been ploughed, at leaft not in many years, is alwayts recommended as moft proper for a vineyard. A clean, light, warm, rich foil, that has a great mixture of fand, is beft; a rank, heavy, ftubborn foil is not good, it is apt to rot the vines y yolefs ig fies high along the fouth and fouth-eaft fides of hills and mountains ; the drynefs of the fituation, and the intenfe heat of the fun, greatly alter fuch-a foil, and meliorate it ; they open, warm and fweeten it, by drawing out its cold, four, bitter nature, and render it fit for the richeft productions, fo that here the ftrongeft and higheft flavoured wines are made.
The Koman frame, which ferved inftead of efpaliers in ancient times, was plain, cheap and frugal, fit for farmers, and fuch as every farmer may procure without expenfe on his own plantation: It confifted of ftrong ftakes, or frall poits, fixed well in the:ground in a ftraight line fix feet high, and three rows of poles tied faft to them one above another, and fifteen inches apart, the upper pole being four, five, or fix feet from the ground, according to the age of the vine ; over the upper pole the bearing branches were laid, looking toward the fouth, and were faftened to the pole, and this they called precipitatiog a vine; when the branches were grown long enough, they were faftened to the middle pole, and then to the lowermof, and when they came near the ground they were cut off. The branches were regularly difpofed fo that each might have the Denefit of the fun and air, by being faftried to ftakes driven down
at certain diftances along the frame, they were trimmed and managed in other refpects juft in the fame manner as thofe dirécted for efpaliers; and indeed from thefe frames the efpalier was taken.

The materials proper to make bands of to bind the vines to the ftakes are, the fweet flag, otherwife called the calamus aromaticus. Thefe long flat leaves cut in June, and dried in the fhade, and then bundled up and kept in a dry place for ufe, do very well, but then they muft be made wet when ufed. The long flat leaves of reed, the rufhes and three fquare that-grow in marhyy or meadow ground, preferved and ufed in the fame manner, do as well.
${ }^{\text {}}$ 'From thefe neceflary directions for planting and managing vines and vineyards we proceed to the making of wines; a fubject which, though fhort and eafy, calls for great nicety and exactinefs. . The making, fermenting and preferving of wine, is a myftery to the people of moft countries, but when the methods of managing the procefs are brought to light and explained, nothing appears more fimple and eafy. Introductory to this work, it will be neceffary to give fome directions about gathering the grapes.

We have already obferved, that the black grapes differ from the white in the manner of ripening, but whether grapes are black or white, they muft be fully ripe before they are gathered, otherwife they will not make good wine: they thould be gathered in a fair, dry day, when they are perfectly dry, and all the rotten and unripe grapes muit be taken away from every clufter, for they fpoil the wine: if the vintage is large and more grapes are gathered than can be mafhed and preffed out in one day, care fhould be taken that they are gathered without bruifing, for bruifed grapes foon sontract an unfavory tafte and hurt the wine in proportion; if they are maflied the fame day they are gathered, the bruifing will do no hurt; neverthelefs, we advife the gathering of them with care.

The black grapes are beft known to be ripe, when a few of the forwardeft grapes begins to fhrivel and dry; then they fhould be gathered and made into wine as faft as poffible.

If white froits happen before fome of the grapes are fully ripe though very near it, fo as to want no farther feeding, there need not be any apprehenfions about them, they may fill hang on the vines, for they will grow ripe, rich and high flavoured notwithftanding but then they muft be gathered before the weather is fo cold as to freeze then'; the light frofts that only kill the leaves do not hurt the fruit, undefs it be fuch as are late ripe; thefe fhould be carefully covered
from all frofts, they fhould grow againft walls or board fences fronto ing the fouth or fouth-eaft, and at' night be covered with mats, or frames thatched with frraw, which flould be fo contrived as to be fet up to cover the fruit or let dow at pleafure.
A pretty correct judgment may be formed of the goodnefs or bach nefs of wine, and of a plentiful or thin vintage, by the feafons of the year; if the fpring and former part of the fummer prove generally dry; with moderate refrefhing rains at intervals; if the feafon in Auguft and September prove hot and dry, if in the month of June the weather prove calm, ferene and dry, when the vine is in bloffom, and the fruit is forming, the vintage will in general be plentiful, and the wine rich and good: but if at the time of blorfoming the feafon flould prove wet and flormy, the winds high and bluftering; if the fpring is cold, wet, and backward; if the latter part of the fummer and fall is formy, raw and wet, the vintage will be thin, and the wine bad; when this happens, it will be neceffary to boil one-half of the muft, and to manage it as hereafter directed.
As the wine made from black grapes has a different manage. ment from that made from white grapes, we fhall begin with the white:-thefe mult be gathered, as before mentioned, in a fair, day, when the grapes are perfectly dry; and both the rotten and unripe fruit carefully plucked off from every bunch ; the clufters muft then be thirown into the vat, and thoroughly mafhed; for the more they are trampled and mafhed the better: about Paris they let the murk, that is, the fkins, ftalks, muft and all, ftand together in the vat eight and forty hours, and then prefs it off, but in other parts of France they prefs off as foon as the grapes are mafhed. The laft method we fhould prefer, provided the hulks are mafhed or trod over again in the Pottuguefe manner, otherwife we fhould prefer the method practifed by the people about Paris, for this reafon, becaufe there is a rich pulp that adheres to the fkin of the grape, which is not feparated by the firft treading; but by lying eight and forty hours in the murk, and the vat covered clofe, which is the practice, a pretty frong fermentation is begun and continued fome time, which partly diffolves and part tootens this rich pulp, which then chiefly comes away by preffing; however, we are of opinion, that the treading of thefe hulks after the fermentation, the mult having firft run off into the receiver, would do the work more effectually if they were well
 vines are young, which always afford a thin, weak wine, or if the feafons have been wet and bad, fo that the juices are not rich, in thofe cales the muft fhould be boiled before any fermentation, in order to preferve the wine, in that cafe the Portuguefe method flould be purfued, becaufe the boiling of wine after the fermentation has begun would entirely fpoil it; the weet muft only, as it runs from the treading into the receiver, flould be boiled. The firft and fecond preffing being mixed together is put into hogfheads, which fhould be filled within four inches of the bung, that it may have room to work and ferment, the calks being placed in fome warm room or dry cellar. Then having a fmall fpile fixed in the middle of the head of the calk, the third or fourth day a litile of the wine fhould be drawn in a glafs, and if it is pretty fine, drawn of immediately into a clean dry well-fcented cark, the larger the better, fo there is wine enough to fill it within two inches of the bung; it muft then be ftopped clofe, leaving only the vent-hole open for a fecond fermentation; after a few days it will work a fecond time, but not fo much as at the firft. If the wine is ftrong and good, which may be known by the age of the vineyard, and the goodnefs of the feafons, it will be beft to leave the bung-hole open for this fecond working, in which cafe the wine will be the better; for ftrong wines require a greater fermentation than weak, and the ftopping of the bung hole is a check upon the working, and prevents weai wincs from fpending themfelves too much, which muft greatly hurt them; on the contrary, if flrong wines have not-a thorough work: ing, they are apt to grow thick and ropy, which hurts them as much the other way; by this the wide-maker may form a proper judgment what degree of fermentation is proper for the wine that is under working, and govern himfelf accordingly. Three or four days after the fecond fermentation begins, which thould be carefully watched, the wine fhould be again tried in a glafs, and if it is pretty fine, a fweet cafk fhould be prepared, and a good large brimftone match burned in it ; as foon as the match is burnt out, whilf the cafk is full of frooke, the wine fhould be drawn off into it; the calk filled to the brim, and bunged up tight and the vent-hole ftopped; the fmoke of the brimftone will hinder any farther fermentation: this is called fumming: a mortar of clay and horfedung, mixed up with frong flax feed tea, fhould then be made,
and the burg and vent-hole covered clofe with it, and then it fhourd fand till it is fit to fell or to ufe.
When the wine-maker firf racks off his wine, if he has any old wine that is rich: and good, of the fame kind or colour, he flould put four or fix gallons of it, and tro gallons of good brandy into the cafk; (this quantity is fufficient for an Englifh hoghead) and then rack off the wine into it for the firft time ; this will greatly ffrengthen and preferve the wine, and if it is weak, it will hinder too great a fermentation the fecond time, and fo preferve the purer fpirits from flying off.
When wine is in fermentation, all the grofs parts are thrown up to the top of the calk or veffel that it ferments in, and there meeting the air, they undergo a very great change, they contract a harfinefs and become rancid. If then they are fuffered to pafs down througli the body of the wine, which they certainly will do as foon as the fermentation is over, they will communicate thofe evil qualities to the wine, and it muft be a frong wine indeed that will ftand fuch a fhock, and if the wine is weak, it will foon turn four; if the wine is flrong, and has a fufficient fock of native fpirits to defend it from thofe bad-impreffions, yet it will contract an unfavoury harfhnefs which will not be removed for fome time, nor will it be fit for drinking till age has fmoothed and made it mellow. For this reafon it is that wine fhould be drawn off both times before the fermentation is quite over; and as to weak wines, they fhould by no means work too much either time, three days are quite fufficient for each working; ftrong wines fhould work longer for the reafon above affigned; they are better able to ftand it; befides, it prevents ropinefs; and they fine the fooner and better for it.

We now pafs on to the making of red wines from the black grapes. In France, red wines are managed in the following manner; the whole of one or equen two days treading or manhing; when the vintage is great, $1 s^{2}$ thrown into a large vat, the muft, ftalks, fkins and aht, and ftands in fome warm' dry place or celLar. The vat is covered clofe with fheets or blankets, or both, and this it remains, from four to feven or even ten days, aceording to the coldnefs or heat of the weather. This is done to obtain a ffrong fermentation, in order to give a deeper colour to the wine, and this is the only end propofed by it ; the manager of this work vifits the vat twice a day, and in a-gla fs views the
colour of the wine and taftes it; if the tincture is not deep enough to his mind, he knows by the tafte of the wine, whether it will fand a longer fermentation; if it will not, he contents himfelf with the colour it has, and draws anid preffes it off, and fills it into calks, leaving about two inches from the bung for a fecond fermentation. When the fecond fermentation is over, which generally happens in four or five days, he then draws it off into clean wellfeented cafks; and adds to it fix gallons of good old wine, and two gallons of brandy, to an Englifh hogithead, which contains from fixty to fixty-three gallons. Where the fame kind of wine is not to be had, he makes ufe of port wine.* He then fills the cafk quite full and bungs it up tight, leaving only the vent-hole open to let out the generated air.

This management of red wines, which perbaps, with little variation, is almoft as ancient as the making of wine in France, deferves fome attention and a clofe examination, inafmuch as we are fully perfuaded, that it is capable of an effential improvement.

To underfand the nature of this procefs rightly, it muft be remembered that, befides the main pulp or core of the grape, which is white in black grapes as well as others, there fticks to the infide of the ikin a confiderable body of rich pulp, which is perfectly red, of a deeper die in fome than in others: this pulp gives the colour to the grape, according to the lightnefs or deepnefs of its tincture: thus we fee fome grapes of a light red, fome of a full red, and fome of a deep red; fome again are almoft black, fome quite black, and fome of a flining jet: this fame pulp alfo gives the tinctare or colour to the wine, for the fame grape is capable of making white wine as well as red wine; if the main core, which is firft trod out, be only ufed, the wine will be white ; thus they make white Burgundy, \&cc. but if the red pulp be mixed with it, it makes it of a rich purple colour. As this is a clear cafe, and lies expofed to every difcerning eye, the great point of improvement to be gained, is to diffolve or extract this-rich pulp, without injuring the wine. That the prefent method is the beft and thont effectual to that purpore, we can by

[^68]wo means think; the violent fermentation through which the wise is made to pafs, in order to procure the tincture, muft exfrauft the fpirits in a very great degree, and leave the body weak and fabject it to harfhnefs, to turn eager or vapid in a flort time; thefe wines grow worfe not better by age: many inflances of this kind we meet with in the French clarets, among which, where one hoghlead proves good, found and wholefome, ten, wot to fay twenty, prove harlh and difagreeable. Thefe confiderations have led many to think, that the prefent management calls for a. refermation. The following experiment was made fome years Back in New-Jerfey, which feems to have anfwered: in a clean flone pot, wide and open, containing two gallons, was fqueezed as many Burgundy grapes as nearly filled it, with the liquor and fkins; the falks left out. It flood in a dry room covered with a coarfe dry towel four double, four days and nights fermenting; it was then: Erained off and the fkins very well mafled with the hand; by this means there was obtained a full deep tincture of that kind of purple that is peculiar to the Burgundy wine; it was then left to ferment in a large cafe botle : after the firft and fecond fermentations were over, there was found about a quart of rich fediment at the bottom, and a pretty thick flkin formed on the top; the fmell was very pleafant and truly vinous, the juft indications of a foand, healthy wine. By this experiment it appears, that three days fermentation, allowing the firft day for heating, which is preparatory to fermentation,* is fufficient to obtain a tincture, with the help of fqueezing the紫ins a fecond time, uithout injuring the wine; it was found, that what red pulp remained adhering to the fkins, feparated from them very eafily, and by the colour of the wine, before the fecond fqueezing, that the fermentation had diffolved moft of this pulp, or extracted a great part of its tincture. From this procefs there is reafon to conclude, that if the hufks or frins, after four days lying in the murk, were taken out and thrown into the mafh vat, and heartily trod over again, and efpecially if fome of the muft, or rather: wine, (for it is wine after fermentation) was now and then thrown over the hufks, as they are trampling it in order to wafh away the pulp, that a full tincture might be obtained without treating the wine, as the prefent manner is, and without running fo great a rifk of fpoiling it.

[^69]As this is a very important point, upon the right management of which depends the goodnefs of the wine, and as a farther improvement is hereby defigned, we have dwelt the longer upon the fubject, and therefore hope it will not be confidered as a ufelefs digreffion.

Wine made from young vineyards is always thin and weak, and fo are wines from old vineyards, when the feafons have been cold, ftormy and wet, and without fome affiffance they will not hold found long; this affiftance is given two ways, either by the help of fome old ftrong wine, one fourth part at leaft, and four gallons of brandy to an Englifh hoghead, or if that is not to be obtained, then half of the mult fhould be boiled away to one-half of its quantity, that is, if one-half of the muit contains forty gallons, that mult be boiled away to twenty, this greatly enriches it, and makes it of the confiftence of liquid honey: as foon as it is cool, mix it with the reft of the muft, and let it ferment together, and then manage it as other wines : when a vineyard comes to be ten or twelve years old, it will yield much fronger wines.

The boiling of muft is managed in the following manner, which, frould be carefully attended to: the copper or kettle being well cleaned, the infide fhould be rubbed over with a woollen rag dipped in fweet oil, which preferves the wine from contracting a naufeous, copper or brafs tafte; the mult fhould be then thrown $\mathrm{in}_{\text {, }}$ and a gentle fire kindled under the copper with brufh or fmall fplit wood, the copper ftanding fo high that the wood need not touch the bottom of it ; for if at any time the wood touches the bottom of the kettle or copper, the wine will be burned, which will fpoil it; it fhouid. therefore be ftirred often from the bottom, and the fcum taken off as it rifes till clear; the muft boiled away is called defrutum, or the rob of grapes. If there is a neglect in raifing the fediment from the bottom of the copper, it will burn and fpoil the wine, as it turne it bitter.

And here we mult caution every one who attempts to make wine ${ }_{2}$ to be ftrictly careful to have all the veffels and inftruments made ufe of in this work perfectly clean and fweet; for if they have any four, nofavoury or offenfive fmell, they will commanicate it to the muff and fpoit the wine ; and every thing that has an offerifive of difagreeable fmell fhould be removed from the place where wine is made, and from the cellars where it is kept; the cellar ought to be dry and wario, for damps or wet hurt wines exceedingly; it muft alfo be free from muftinefs, and, in good weather, the windows

[^70]next the fouth and weft fhould be opened, to aqmit the warm dry air, which will prevent muftinefs and dangerous damps.
Hogtheads well bound with iron are the only fafe calks for wine ; if old wine pipes, or hogtheads with wooden hoops, are trufted, it is ten to one but they deceive; they conftantly want repairing every year, but iron-bound cafks will hold many years without any expenfe at all, fo that in three years time they become by much the cheapeft calks, we mean for ftanding calks, out of which the wine is racked into other calks for fale; but then as foon as they are empty the lees fhould be taken out, and faved for diftilling into ©randy, and the fame day the cark filled with-water, or elfe they will be deftroyed by a fmall worm, which will pierce it like a fieve.

Every man that has a vineyard fhould have a ftill and good worm, that he may diftill all the lees, the huiks and the fcum into good brandy, which he will want for the prefervation of his wines; the fame ftill will do to make peach brandy and the fpirits of cyder, which will foon pay for it. A fill that holds a barrel is quite large enough, unlefs his vineyard and orchards be very large indeed.

We now pafs to the different management of wine after fermenta: tion; one method we have already mentioned : fome, after the fecond fermentation, leave the wine in the fame cafk upon the lees, and adding the old wine and brandy to it, they ftop up the bung-hole, and leave only the vent-hole open to let øut the generated air, till the month of March filling up the cak from time to time as the wine fubfides or waftes, and then draw it off into a clean, well-fcented and well-ftummed cafk, ànd ftop all clofe with mortar.

Others again, in the month of March, before they rack it off and frum it, roll the calk backward and forward in the cellar to mix the lees thoroughly with the wine, thinking thereby to communicate the ftrength of the lees to the wine, and then let it ftand and fettle till it is fine, and rack it off into clean well-ftummed calks, and ftop and plaifter all up clofe *

[^71]It will be no doubt obferved, that we haye been filent in this effay; about vines that are natives of America; the reafon is, they have in part already been poticed, and their qualities in general defribed: they are in general fuppofed to be much more untractable than thofe of Europe: they are very hardy, and will fland the frame, fot they brave the fevereff ftorms and winter blafts; they flarink not at fnow, ice, hail or rain; the wine they afford is ftrong and good.

The fox-grape, whofe berries are large and round, delights moft in a rich fandy loam; here they grow very large and the berries are fweeteft ; but they will grow in any groands, wet or dry; thofe that grow on high grounds generally become white; and the colour alters to a dark red or black, according to the lownefs or wetrefs of the ground: the fituation, we think; muft greatly affeci the wine, in ftrength; goodnefs and colour; the berries are generally ripe the beginning of September, and wher fully ripe they foon fall away: thus much we have obferved as they grow wild ; what alteration they may undergo, or-how much they may be improved by propet föils and due cáltivation, we cannot fay,

There is a frnall black grape, a fize bigger thay the winter grape, that is nipe in September; it is pleafant to eat, and makes a very pleafant wine: Thefe are well worth cultivating, as is the grape of Scioto and the newly-difcovered grape of Indian river in Maryland, which promifes to be a valuable acquiftion to the vineyard.

The froft, or winter grape, is known to moft perfons ; both the bunches and berries are fmall, and yield but litale juice, but the richnefs of the wine may make up for the frallinefs of the quantity; the tafte of the grape is auftere till pretty hard frofts come, and then it takes a favourable turn and becomes very fweet and agrêeable:
conk, where they are left for the wine to feed upon, we leave any man to judge what kind of food this muft be, and what minner of good it can communicate to the wine. But fo rigid and arbitrary is cuftom, that it is evé looked upon next to rebellions to deviate or depart from the cuftoms of our fathers. The cyder made in America for above one hundred years was conftantly fpoiled by this mîtake. Every main thas makes cyder very well knows, how fogn the pumice corrupts and grows four by being expofed to the airy and yet no man in all that time ever prevented the pumice, aftet fermentation, from fettiang down through the whole body of cyder; but there left it to remain for his cyder to feed upon all winter, and indeed all the next fanmer too, if it lafted to tong, and the owner complained of the hardects of his cyder, and fo did efory body elfethat drank it; and yet thits long remained witiout a remedy, becaure is Nad been tbe cuftom of their fathers.
this viee fhoots forth great numbers of flender branches, and might do very well for the fouth and fouth-eaft fides of a fummer-houfe or clofe walk, if all the ufelefs and barren branches were cutaway. The vines of America, in general, are fit for frong high ef paliers, but they muft be watched narrowly, and every unneceffary and unprofitable branch taken away.

The native vines of the northern and middle States have a covering of bark of fo clofe and firm a texture, that they ftand all weathers , without injury; they fear nothing but a froft after they put forth the tender bud. We know that cold winds and winter blafts have a great effect upon the human body, they brace up and confirm all the folids, barden and friengthen the whole frame, and render a man active, brik and lively : they have likewife a wonderful effect. upon the brute creation; the covering of fheep, cattle and horfes, in hot countries, is very thin and cool, remove them into a cold region, fheep foon acquire a covering of wool, horfes and cattle a thick coat of haire Why then fhould not vines, by being tranfplanted from a warm into a cold region, acquire a firmnefs and corering fuitable to their new fituation? We believe, by a proper management, that they may by degrees be inured to colder countries, bot fuch a hardinefs muft not be fuppofed to be acquired all at once but by being, winter after winter, a little more and more expofed to the feverities of the weather: they may thus in a few years be, in a great:meafore, reconciled to almoflany climate; late ripe froits, however, will not do as yet to the morthward of the capes of Virgiuia; it is the early tipe fruits that the midde States muff cultitate; till the climate becomes more temperate by the country's being cleared farther back; none that ripen much after Ottober will fuit at prefent, and the lateft they raife, fhonid arrive at full maturity by the end of November.

## ON TRE CULTURE OF SUGAR MAPLE, \&C

- The acer faccbarinum of Linnxas or the fugar mapley as before' obberwed, grows in great quantities in the weftern countries of all the midde States of the Americal Union: Thofe which grow in New-York aro Penifyluania yielz the fugar in a greater quantiry that thofe which goo on the waiers of the ofio. There trees are generally fonod mixed with the beaci kemiok white ahd water afh, the cucumber tree, linden, afpen, butter nuts, and wild cliterry trees : they fometimes appear in groves covering five or

Fix acres in a body, but they are commonly interfperfed with fome or all of the foreft trees which have been mentioned. From thirty to fifty trees are generally found upon an acre of ground. They grow oftiefly in the richeft foils, and frequently in ftony ground. Springs of the pureft water abound in their neighbourhood. They are, when fully grown, as tall as the white and black oaks, and from two to three feet in diameter;* they put forth a beautiful white bloffom in the fpring before they flew a fingle leaf; the colour of the bloffom diftinguilhes them from the acer rubrum, or the common maple, which affords a bloffom of a red colour. The wond of the fugar maple is of an inflammable nature, and is preferred upon that account by hunters and furveyors for fire-wood. Its frall branches are foo much impregnated with fugar as to afford fupport to the cattle, horfes and fheep, of the fire fettlers during the winter, before they are able to cultivate forage for that parpofe. Its afhes afford a great quantity of pot-all, exceeded by few or perbaps by none of the trees that grow in the woods of the United States.
The tree is fuppofed to arrive at its fall growth in the roods in twenty years.

It is not injured by tapping ; on the contrary, the oftener it is tapped the more fyrup is obtained from it. In this refpect it follows the law of animal fecretion. A fingle tree has not only furvived, but flourithed after forty-two tappings in the fame number of years. The effects of a yearty diffcharge of fap from the tree in improving and increafing the fap, is defionftrated from the fuperior excellence of thofe trees which have been perforated in an hundred places, by a fmall wood-pecker which feeds upon the fap. The trees, after having been wounded in this way, diftil the remains of their juice on the ground, and afterwards acquire a black colour. The fap of thefe trees is much fweeter to the tafte than that which is obtained from trees which have not been previoully wounded, and it affords more fugar.

From twenty-three gallons and ore quart of fap procured in twenty hours from only two of thefe dark-colourred trees, Artiour

* Baron La Hontan, in his voyage to North-America, gives the following acconing of the ruaple tree in Canada. After defribing the black cherry tree, fome of which, he rays, are as tall as the lofieft oaks and as big as a hogfhead, he adds, "The maple erec is inuch of therifime beight and bulk : it lajrs no refemfinate to that fort we have in Europe: ${ }^{3}$

Noble, Efq. of the State of New-York obtained four pounds arid thirteen ounces of good grained fugar.

A tree of an ordinary fize yields, in a good feafon, from twenty to thirty gallons of fap, from which are made from five to fix pounds of fugar : to this there are fometimes remarkable exceptions: Samuel Low, Efq. a juftice of peace in Montgomery county, in the State of New-York, informed Arthur Noble, Efq. that he made twenty pounds and one ounce of fugar between the $14^{\text {th }}$ and $23^{\mathrm{d}}$ of April, in the year 1789 , from a fingle tree that had been tapped for feveral fucceffive years' before.

From the influence which culture has upon foreft and other trees; it has been fuppofed, that by tranfplanting the fugar maple tree into a garden, or by deftroying fuch other trees as fhelter it from the says of the fun, the quantity of the fap might be increafed, and its quality much improved. We have heard of one fact which favours this opinion : A farmer in Northampton county, in the State of Pennfylvania; planted a number of thefe trees about twenty-feven years ago in his meadow, from lefs than tbree gallons of the fap of which, he obtains every year a pound of fugar, It was obferved fcrmerly, that it required five or fix gallons of the fap of the trees which grow in the woods, to produce the fame quantity of fugar.
The fap diftils from the cwood of the tree: trees which have beem cut down in the winter for the fupport of the domeftic animals of the new fettlers, yield a confiderable quantity of fap as foon as their trunks and limbs feel the rays of the fun in the fpring of the year.

It is in confequence of the fap of thefe trees being equally difo fufed through every part of them, that they live three years after they are girdled, that is, after a circcular incifion is made through the bark into the fubllance of the tree, for the purpofe of deftroy: ing it.

It is remarkable, that grafs thrives better under this tree in a meadow, than in fituations expofed to the conftant action of the fun.

The feafor for tapping the trees is in February, March and April, according to the weather which oscurs in thefe months.
Warm days and froffy nights are moft favourable to a plentifill difcharge of fap:* The quantity obtained in a day from a tree is from

[^72]from five gallons to a pint, according to the greater or lefs heat of the air. A Mr. Low informed Arthur Noble, Efq. that he obtained near three and twenty gallons of fap in one days (April 14, 1789) from the fingle tree which was before mentioned. Such inftances of a profufion of fap in fingle trees are, however, not very common.

There is always a fufpenfion of the difcharge of fap in the night if a froft fucceed a warm day. The perforation in the tree is made with an ax or an auger; the later its preferred from experience of its advantages: the anger is introduced about three-fourths of an inch, and in an afcending direction, that the fap may not be frozen in a flow current in the mornings or evenings, and is afterwards deepened gradually to the extent of two inches. A fpout is introduced about half an inch into the hole made by this auger, and projects from three to twelve inches from the tree. The fpout is generally made of the fhumach, ${ }^{*}$ or elder, $\dot{\dagger}$ which generally grow in the neighbourhood of the fugar trees. The tree is firft tapped on the fouth fide; when the difcharge of its fap begins to leffen, an opening is made on its north fide, from which an increafed difcharge takes place. The fap flows from four to fix weeks, according to the temperature of the weather. Troughs large enough to contair three or four gallons made of white pine, or white afh, or of dried water afh, afpen, linden, $\ddagger$ poplar or common maple, are placed uñder the fpout to receive the fap, which is carried every day to 2 large receiver, made of either of the trees before mentioned. From this receiver it is conveyed, after being frained, to the beiler.

To preferve the fap from rain and impurities of all kinds, it is a good practice to cover the troughs with a concave board, with a hole in the middle of $\mathrm{it}_{0}$ ?

It remains yet to be determined, whether fome artificial heat may not be applied fo as to increafe the quantity and improve the quality $\alpha$ of the fap. Mr. Noble informed Dr . Ruib, that he faw 2 tree, under which a farmer had accidentally burnt fome brufn, which dropped

Dr: Tonge fuppofed long ago (Philofophical Tranfections, No. 68,) that changes in the weather of every kind might be better afcertained by the difcharge of fap from trees than by weather gaffes. 1 have feen a journal of the effeis sf beat, cold, moifture, drought and thunder, upon the difcharges from the fugar trees, which difpofes me to admit Dr. Tonge's opinion. Dr. Ruifh.

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a thick heavy fyrup refembling molaffes: this fact may probably leád to fomething ufeful hereafter.

During the remaining part of the fpring months, as alfo in the fummer, and in the beginning of autumn, the maple tree yields a thin fap, but not fit for the manufactory of fugar: it affords a pleafant drink in harveft, and has been ufed inftead of rum, in fome inftances, by thofe farmers in Connecticut, whofe anceftors have left to them here, and there, a fugar maple tree, probably to fhade their cattle, in ail their fields. Mr. Bruce defribes a drink of the fame kind, prepared by the inhabitants of Egypt, by infufing the fugar cane in water, which he declares to be "the moft refreflling drink in the world."*

There are three methods of reducing the fap to fugar:
First, By freezing it. This method has been tried for many years by a Mr. Obadiah Scott, a farmer in Luzerne county, in Pennfylvania, withtyreat fuccefs. He fays, that one-third of a given qrantity of fap reduced in this way, is better than one-half of the fame quastity reduced by boiling. If the froft fhoutd: not be intenfe enough to reduce the fap to the graining point, it may afterwards be expofed to the action of the fire for that purpofe.
Secondiy, By fpontaneous:evaporation. The hollow flump of a maple fugar tree, which had been cut down in the fpring, and which was found fome time afterwards filled swith fugar, firft fug. gefted this method of obtaining fugar to our farmers. So many circumitances of cold and dry weather, large and flat veffels, and above all, fo much time, are neceffary to obtain fugar, by either of

[^74]the above methods, that the moft general method among the farmers is to obtain it.
Thirdiy, By boiling. For this purpofe the following facts, which have been afcertained by many experiments, deferve attention :

1. The fooner the fap is boiled, after it is collected from the tree, the better; it Mhould never be kept longer than twenty-four hours before it is put over the fire.
2. The larger the veffel is in which the fap is boiled, the morej fuger is obtained from it.
3. A copper veffel affords a fugar of a fairer colour than an iron veffel.

The fap flows into wooden troughs, from which it is carried, and poured into fore troughs or large cifterns, in the fhape of a canoe or large manger, made of white afh, linden, bafs wood, or white pine, from which it is conveyed to the kettle in which it is to be boiled. Thefe cifterns, as well as the kettle, are generally covered by a fhed to defend the fap from the rain. The fugar is improved by ftraining the fap through a blanket or cloth, either before or after it is half boiled. Butter, hog's lard, or tallow, are added to the fap in. the kettle, to prevent its boiling over; and lime, eggs, or new milk, are mixed with it, in order to clarify it. Clear fugar, however, may be made without the addition of either of them. A fpoonful of flaked lime, the white of one egg, and a pint of new milk, are the ufual proportions of thefe articles, which are mixed with fifteen gallons of fap. In fome famples of maple fugar, clarified with each of the above articles, that in which milk alone was ufed, had an evident fuperiority in point of colour.

The fugar after being fufficiently boiled is grained and clayed, and afterwards refined, or converted into loaf fugar. The methods of conducting each of thefe proceffes is fo nearly the fame with thofe which are ofed in the manufactory of Weft-India fugar, and are fo generally known, that tie need not fend any time in deferibing thêm.
It has beeil a fubject of inquiry, whether the maple fugar might not be improved in its quality, and increafed in its quantity by the effablifhment of boiling houfes in the fugar maple country, to be conducted by affociated labour. From the fcattered fituation of the trees, the difficulty of carrying the fap to a great diftance, and from the many expenfes which muft accrue from fupporting labourers and Vox. III.

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horfes in the woods, in a feaion of the year in which nature affords no fuftenance to man or beaft, we are difpofed to believe, that the moft productive method both in quantity and profit of obtaining this fugar, will be by the labour of private families. For-a great number of years, many hundred private families in New-York and Pennfylvania have fupplied themfelves ploatifully with this fugar during the whole year. We have heard of many families who have made from two to four hundred pounds in a year; and of one man who fold fix hundred pounds all made by his own hands in one feafon.*
Not more knowledge is neceflary for making this fugar than cyder, beer, four krout, \&c. and yet one or all of thefe are made in mof of the farm houfes of the United Stattes. The kettles and other utenfils of a farmer's kitchen will ferve moft of the purpofes of making fugar, and the time required for the labour, if it deferves that name, is at a feafon when it is impoffible for the farmer to employ himfelf in any fpecies of agriculture: His wife and all his children above ten years of age, moreover may affift him in this bufinefs, for the profit of the weakeft of them is nearly equal to that of a man when hired for that purpofe.
A comparative view of this fugar has been frequently made with the fugar which is obtained from the Weft-India fugar cane, with refpect to its quality, price, and the poffible or probable quantity that can be made of it in the United States, each of which we fhall confider in order.
First. The quality of this fugar is neceffarily better than that which is made in the Weft-Indies. It is prepared in a feafon when not a fingle infect exifts to feed upon it, or to mix its excrements with it, and before a particle of duft or of the pollen of plants can float in the air. The fame obfervation cannot be applied to the Weft-

[^75] courfe mix with it, compore a page in prey upon it, and of hiftory. We thall fay nomenclature of natural making fugar in the Whing of the hands which are employed in exclufive benefit Weit-Indies, but that men who work for the keep their perfor others are not under the fame obligations to men, women and clean while they are employed in this work, that of themfelves, and who have, who work exclufively for the benefit linefs. The fuperior purity of een educated in the habits of cleanits leaving a lefs fediment when maple fugar is farther proved by India fugar.

It has been fuppofed that the maple fugar is inferior to the WeftIndia fugar in ftrength. The experiments which led to this opinion we fufpect have been inaccurate, or have been made with maple fugar prepared in a flovenly manner. Dr. Rufh examined equal quantities by weight of both the grained and the loaf fugar, in hyfon tea, and in coffee, made in every refpect equal by the minuteft circumftances that could affect the quality or tafte of each of them, and could perceive no inferiority in the ftrength of the maple fugar. The liquors which decided this queftion were examined at the fame time by Alexander Hamilton, Efq. fecretary of the treafury of the United States, Mr. Henry Drinker, and feveral ladies, who all concurred in the above opinion.

Secondiy. Whoever confiders that the fugar maple tree grows. fpontaneoufly withouf cultivation, that the Americans have many millions of acres in their country covered with them, that the tree is improved by repeated tappings, and that the fugar is obtained by the frugal labour of a farmer's family, and at the fame time confiders the labour of cultivating the fugar cane, the capitals funk in fugar works, the firft coft of flaves and cattle, the expenfes of provifrons for both of them, and in fome inftances the additional expenfe of conveying the fugar to a market in all the Weft-India iflands, will not hefitate in believing that the maple fugar may be manufactured much cheaper, and fold at a lefs price than that which is made in the Weft-Indies.

Thirdly. The refources for making a fufficient quantity of this fugar, not only for the confumption of the United States, but for exportation, will appear from the following facts. There are in the States of New-York and Pennfylvania alone, at leaft ten millions of acres of land which produce the fugar maple tree, in the proportion
of thirty trees to one acre. Now fuppofing all the perfons capable of labour in a family to confift of three, and each perfon to attend one hundred and fifty trees, and each tree to yield five pounds of fugar in a feafon, the product of the labour of fixty thoufand families would be one hundred and thirty five million pounds of fugar; and allowing the inhabitants of the United States to compofe fix hundred thoufand families, eaçh of which confumed two hundred pounds of fugar in a' year, the whole confumption would be one hundred and twenty million pounds in a year, which would leave a balance of fifteen million pounds for exportation. Valuing the fugar at -rix-ninetieths of a dollar per pound, the fum faved to the United States would be eight million dollars by home confumption, and the fum gained by exportation would be one million dollars. The only part of this calculation that will appear improbable is, the number of families fuppofed to be employed in the manufactory of the fugar, but the difficulty lof admitting this fuppofition will vanifh when we conFider, that double that number of families are employed every year in making cyder, the trouble, rifks and expenfes of which are all much greater than thofe of making maple fugar.

But the profit of the maple tree is not confried to its fugar; it affords an agreeable molaffes, and an excehent vinegar. The fap which is fuitable for thefe purpofes is obtained after the fap which affords the fugar has ceafed to flow, fo that the manufactories of there different products of the maple tree, by fucceeding, do not interfere with each other. The molaffes may be made to compofe she bafis of a pleafant fummer beer. The fap of the maple is moreover capable of affording a fpirit, but we hope this precious juice will never be proftituted by American citizens to this ignoble purpofe. Should the ufe of fugar diet become more aneral in America, it may tend to leffen the inclination or fuppofed neceffity for feirits, for a relifh for fugar in diet is feldom accompanied by a love of ftrong drink. It is the fugar which is mixed with tea which makes it fo generally difagreeable to drunkards; but a diet confifting of a plentiful mixture of fugar has other advantages to recoinmend it, which we fhall briefly enumerate.

First. Sugar affords the greateft quantity of nourifiment in a given quantity of matter of any fubftance in nature; of courfe it may Be preferved in lefs room in our houfes, and may be confumed in lefs time than more bulky and lefs nourifhing aliment. It has this peculiar advantage over moft kinds of aliment, that it is not liable to have
its nutritious qualities affected by time or the weather, hence it is preferred by the Indians in their excurfions from home. They mix a certain quantity of maple fugar, ${ }^{\circ}$ with an equal quantity of Indian corn, dried and powdered, in its milky ftate. This mixture is packed in little balkets, which are frequently wetted in travelling, without injuring the fugar. A few fpoonfuls of it mixed with half a pint of fpring water, afford them a pleafant and ftrengthening meal. From the degrees of frength and nourifhment which are conveyed into animal bodies by a fmall bulk of fugar, we conceive it might be given to horfes with great advantage, when they are ufed in places or undér circumftances which make it difficult or expenfive to fupport them with more bulky or weighty aliment. A pound of fugar without grafs or hay, we have been told, has fupported the ftrength and fpirits of an horfe, during a whole day's labour in one of the weft-
-Iñdia illands. A larger quantity given alone has fattened horfes and cattle during the war before laft in Hifpaniola, for a period of feveral months, in which the exportation of fugar, and the importation of grain, were prevented by the want of fhips.

Secondiy. The plentiful ufe of fugar in diet is one of the beft preventatives that has ever been difcovered of the difeafes which are produced by worms. Nature feems to have implanted a love for this aliment in all children, as if it were on purpofe to defend them from thofe difeafes. A gentleman in Philadelphia who early adopted this opinion, by indulging a large family of children in the ure of fugar, has preferved them all from the difeares ufually orcafioned by worms.

Thirdiy. Sir John Pringle has remarked, that the plague has never been known in any country where fagar compofes a material part of the diet of the inhabitants. We think it probable that the frequency of malignant fevers of all kinds has been leffened by this diet, and that its more general ufe would defend that clars of people who are moft fubject to malignant fevers from being fo often affected by them.

Fourthiy. In the numerous and frequent diforders of the breaft which occur in all countries, where the body is expofed to a variable temperature of weather, fugar affords the bafis of many agreeable remedies: it is ufeful in weakneffes, and acrid defluxions upon other ${ }^{\circ}$ parts of the body. Many facts might be adduced in favour of this affertion. We fhall mention only one, which, from the venerable name of the perfon whofe care furnified it, cannot fail of command-
ing attention and credit. Upon Dr. Ruff inquiring of Dr. Franklin, at the requeft of a friend, about a year before he died, whether he frad found any relief from the pain of the ftone from the blackberry jam, of which he took large quautities, he told him that he had, but that he believed the medicinal part of the jam refided wholly in the fugar; and as a reafon for thinking fo, he,added, that he often found the fame relief by taking about half a pint of fyrup, prepared by boiling a little brown fugar in water, juft before he went to bed, that he did from a dofe of opium. It has been fuppofed by fome of the early phyficians of America, that the fugar obtained from the maple tree is more medicinal than that obtained from the Weft-India fugarcane; but this opinion is, perhaps, without foundation; it is preferable in its qualities to the Weft-India fugar perhaps only from its fuperior cleanlinefs.

Cafes may occur in which fugar may be required in medicine, or in diet, by perfons who refufe to be benefited, even indirectly by the labour of flaves. In fuch cafes, the innocent maple fugar will always be preférred.*

It has been faid that fugar injures the teeth, but this opinion now has fo few advocates, that it does not deferve a ferious refutation.

To tranfmit to future generations all the advantages which have been enumerated from the maple tree, it will be neceffary to protect it by law, or by a bounty upon the maple fugar, from being deffroyed by the fettlers in the maple country, or to tranfplant it from the woods, and cultivate it in the old and improved parts of the United States. An orchard confifing of two hundred trees, planted upon a common farm, would yield more than the famie number of apple trees at a diftance from a market town. A full grown tree in the woods yields five pounds of fugar in a year. If a greater expofure of a tree to the action of the fun has the fame effects upon a maple that it has upon other trees, a larger quantity of fugar might reafonably be expected from each tree planted in an orchard. Allow-

[^76]ing it to be only feven pounds, then two hundred trees will yield one thoufand four hundred pounds of fugar; and deducting two hundred from the quantity for the confumption of the family, there swill remain for fale one thoufand two hundred pounds, which at. fixninetieths of a dollar per pound, will yield an annual profit to the farmer of eighty dollars. But if it fhould be found that the flade of the maple does not check the growth of grain any more than it does of grafs, double or treble that number of maple trees may be planted on every farm, and a profit proportioned to the above calculation be derived from them. Should this mode of tranfplanting the means of obtaining fugar be fuccefsful, it will not be a new one. The fugar cane of the Weft-Indies was brought originally from the Eaft-Indies by the Portuguefe, and cultivated at Madeira, from whence it was tranfplanted directly or indireetly to a!l the fugar illands of the WeftIndies.

It were to be wifhed that the fettlers upon the fugar maple lands would fpare the fugar tree in clearing their lands. On a farm of two hundred acres of land, according to our former calculation, there are ufually fix thoufand maple trees. If only two thoufand of thofe original' and ancieit inhabitants of the woods were fuffered to remain, and each tree were to afford only five pounds of fugar, the annual profit of fuch a farm in fugar alone, at the price formerly mentiones, would amount to fix hundred and fixty-fix dollars, one hundred and fifty dollars of which would probably more than defray all the expenfes of making it, and allow a plentiful deduction for family ufe.
According to the ufual annual profit of a fugar maple tree, each tree is worth to a farmer two dollars, and two-thirds of a dollar, exclufive therefore of the valte of his farm; the two thoufand fugar maple trees alone confer a value upon it of five thoufand three hundred and thirty-three dollars, and thirty-ninetieths of a dollar.

It is faid that the fugar trees, when deprived of the fhelter and fupport they derive from other foreft trees, are liable to be blown down, occafioned by their growing in a rich, and of courfe a loofe foil. To obviate this, it will only be neceffary to cut off fome of their branches fo as to alter its center of gravity, and to allow the high winds to have an ealy paffage through them. Orchards of fugar maple trees, which grow with an original expofure of all their parts to the action of the 10 n , willno be liable to this inconvenience.

In contemplating the prefent opening profpects in human affairs, we are led to expect that a material part of the general happinefs which Heaven feems to have prepared for mankind, will be derived from the manufactory and general ufe of maple fugar, for the benefits which we flatter ourfelves are to refult from it, will not be confined to America; they will, we hope, extend themfelves to the interefts of humanity in the Weft-Indies. With this view of the fubject, we cannot help contemplating a fugar maple tree with a feecies of affection and even veneration, for we have perfuaded ourfelves to behold in it the happy means of rendering the commerce and flavery of our African brethren in the fugar iflands as unneceffary", as it has always been inhuman and unjuft.

To the above we add a copy of Mr. Botham's account of the method of manufacturing fugar in the Eaft-Indies, extracted from the report of the committee of the Britifl privy council on the fubject of the flave trade, but we fhall infert only fuch parts of it as will throw light upon the method of manufacturing the maple fugar which has been mentioned, and to fhow how much it is to be preferred in point of economy to that which is ufed in the Weft-Indies.
"Having been for two years in the Englifh and French WeftIndian iflands, and fince conducted fugar eftates in the Eaft-Indies; before the abolition of the flave trade was agitated in parliament, it may be defirable to know that fugar of a fuperior quality and inferior price to that in our illands, is produced in the Eaft-Indies; that the culture of the cane, the manufacture of fugar and arrack, is with thefe material advantages carried on by free people. China, Bengal, the coaft of Malabar, all produce quantities of fugar and firits; but as the moft confiderable growth of the cane is carried on near Batavia, I fhall explain the improved manner in which fugar eftates are there condueted. The proprietor of the eflate is generally a wealthy Dutchman, who has erected on it fubftantial mills, bailing and curing houres. He rents this eftate to a Chinefe, who refides on it as a fuperintendant; and this renter, fuppofing the eftate to confift of three hundred or more acres, re-lets it to freemen in parcels of fifty or fixty on thefe conditions:
" That they fhall plant it in canes, and receive fo much per pecul of one handred and thirty-three pounds and a half for every pecul of fugar that the canes fhall produce.
at When crop tithe comes on, the fuperintendinat collets a fafficient number of perions fremthe adjacent towns or villages, and takes off his crop as follows:
cs To any fet of tradefmen two bring their carts and buffaloes; he agrees to give fuch a price per pecul to cut all his crops of canes; carry them to the mill and grind them.
" A fecond to boil them per pecul.
4. A third to clay them and bafket them for market per pectil.
"So that by this method of conducting a fugar eftate, the renter knows to a certainty: what the produce of it will coll him per pecul. He has not any permanent or unneceffary expenfe; for when the. crop is taken off, the talkmen return to their feveral purfuits in the cowns and villages they came from; and there only remains the cane planters who are preparing the aext year's crop. This; like all other complex-arts, by being divided into feveral branches, renders the labour cheaper and the work more perfectly done. Only clayed fugars are made at Batayia; thefe are in quality equal to the beft fort from the Weit-Indies; and are fold fo low from the fugar eftates as eighteen Mallings flemling per pecul of one hundred and thirtythree pounds and a half. This is not the felling price to the trader at Batavia, as the government there is arbitrary, and fugar fuibject to duties impofed at will. The fiabander exactis a doHar per pecul on all fugar exported. The price of common labour is from ninepence to ten-pence per day. By the method of carrying on the fugar eftates, the tafkmen gain confiderably more than thic; not only from working extraordinary hours; but from being confidered artifts in their feverat oranches. They do not make fpirits on the fugar eftates; the molafes are rent for fale to Batavia; where one difillety may purchafe the produce of an hundred eftates. Here is a vail faving and reduction of the price of firits; not as in the Weff-Irdies, a ditillety for each eftate; many center in one, and arrack is fold at Batavia from twetity-one to tweity five rix dollars per leaguez of one huundred and fixty gallons; fay eight-pence per gallon.
*s The improvement in making the cane into fugar in Batavia keeps pace with that in its culture. Evaporation being in proportion to the furfäce, their boilers are fet with as mach of itas pofible; the cañe jâce, with temper fufficient to throw up its impurities is boiled down to the cofififtere of a fyrtp, it is then thrown up into vats calcuated to hola one boilhng, Ther frinkled with two buckets of
by three pegs of different heights into a fingle copper with one fire; it is there tempered again, boiled up, and reduced to fugar, by a gentle fire. It granulates, and the fugar-boiler dipping a wand into the copper, ftrikes it on the fide, then drops the fugar remaining on it into a cup of water, fcrapes it up with his thumb nail, and is by this means' able to judge to the utmoft nicety of the fugar having its proper degree of boiling : the vats or receivers mentioned are placed at the left hand of a fet of coppers; after running off for boiling all that is clear, the remainder is paffed through a frainer on the outfide of the boiling houfe; what is fine is put into the copper for fugar ; the lees are referved for diftilling."

We fhall clofe this part of our work with a few obfervations on thofe inquiries in natural philofophy which appear at prefent most beneficial to the United States of North-America, and beft calculated or the promotion of human happinefs.

## INQUIRIES RELATIVE TO RURAL ECONOMY.

On the tillage of the United States the following remarks appear very interefting:-The fucceffion of fevere frofts and deep thaws during winter in all the northern and middle States make a variety of drains neceffary in moft foils and fituations; yet an almoft general neglect of this deftroys a great part of the feed: a judicious treatife on the forms and courfes of fuch drains would be very ufeful. $A$ large portion of the arable lands in Pennfylvania, and fome other States, being hilly, is detrimentally wafhed by heavy rains in every fealon of the year; efpecially the manure is thereby totally loft. This would be much prevented by tranfverfe ploughing in a proper degree of horizontal inclination, which may be traced by compating the force and quantity of the water.

The Indian corn * is an effential article among American grains, and peculiarly fuitable to an extenfive country. It might be raifed at fo moderate a price as to bear exportation to Europe, in the northern parts of which it would be very valuable, as nourifhment for domeftic animals during the long winters. The mode of planting this grain
by four or five feeds together on hills, "at the diftance of feveral feet ${ }_{2}$. appears lefs reafonable from the confideration, that one part of the ground is left vacant, while the other is overcharged; that the contiguous ftalks muft impede each other; that their fpindling height, and clofe pofition, fubjects them more to the high winds, which not unfrequently fweep down whole fields. We are informed by the natives of Italy, that in that country the corn is planted fo as to cover the ground equally, with convenient intervals for weeding.

The culture of meadows has gained a confiderable perfection in the middle Sates, but is ftill capable of much improvement. A mode of banking effectually againft the floods that often ruin the beft markmeadows, has not get been difcovered : in open fituations, a clofe row of fome aquatic trees, beyond the bank, is indifpenfable for breaking the force of a flormy tide. The Americans want graffes that will flourifh in dry and fandy foils: fuch, for exampie, as were lately introduced in Spain, and are faid to have proved fo beneficial to that dry and warm country.

The heat of the fummers is unfavourable to grafs, where the ground, though fertile, has not a degree of moifture; it is therefore advifeable to try, whether barley, rye, or wheat, if cut young, would make good hay ; and whether a fecond crop, or the fucceeding parture, may help to make a full compenfation for an eventual harveft? We have heard this method much recommended by forie cultivators in Europe. The divifion of pafture grounds by enclofures is geuerally neglected. Clean feeding is an advantage of admitting cattle, horfes, and fieep in rotation, that deferves attention.
The value of land, and clofe neighbourhood, makes good fences neceffary in old fettlements. Worm-fencing, and fimilar expedients of infant cultivation, fhould never be feen; they occafion loffes, yexation and contention. The regular frames of rails and boards would be much improved by hardening againft heat and moifture ; to render the lower part of the poft moreidurable, burning, encrufting with mortar, and foaking in falt water, are expedients partly yred and worthy of trial. Live hedges are in general preferable to any, but yet very rare, though the country prefents many lhrubs of promifing qualities.
The vaft domains of the United States can vie with appy country in the variety, utility, and beauty of trees and flarubs. Their ftately forefts; are a national treafure, deferving the folicitous care of the

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\mathbf{3} \mathbf{T} 2 \quad \text { patriotic }
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 GENERAI INFORMATIONpatrintic philofopher and politician : hitherte they have brea too nath habaadoned to the axes of rude and thoughtlefs wood-choppers. What perfon of fenfe and feeling can withosit indignation behald mitlions of young oaks and hiccories deftroyed; to make bonfies in oppea: froky tordes, or trucked in the cities for foreign toys? Some parts of Europe were thus laid wafte in former centuries, and the prefent generation muft with great labour arid expenfe repair the ravages of their forefathers. In many parts of America a preferva, tion and increafe of the timber for fuel, and other domeftic ufess renders thefe queries important. What treee are of the quicket grouth ? At what age they do increafe moft? What is the proper diftance between them? What is the beft mode of pruning, for promoting the growth, and taking off all fuperfluous branches? What kinds are foitable to different foils? What fecies thrive beft together ? A judicious lopping of the branches, thinning clofe the clumps of trees, and clearing the ground of underwood, will make many woodlands good paftures, and form them into beauriful parks. This management would alfo improve the quality of timber by procuring the benefit of fun and air: the want of this máy be regarded às one principal caufe of the fponginefs of their timber, which defeet, fe inimical to durability, ftrength, and prefervation of a given fortin, is farther increafed by a too common ignorance or neglet of the proper featon for felling the materials of building, furniture, faves and various utenfils. Some viduabfe trees and firubs are yet obleurely bnown; among thefe, the fo called coffee tree, 年 in the weftern coubtry, that bears a hard nut, the kernel of which is geatrally uled b.y the inhabitants as a furbfitute for coffee; the native plum trees on the Mif: fiflippi, faid to be far fuperior to thofe in the middle Statẹs; the newly difcovered and much extofled grape of Scioto. 4 Many of thofe which have tong been familiar to the Americans, fitill poffefs uffeful qualities little explored. Oil might be extrácted fromacorms; and efpectally from the large and greafy fpecies of the chernut oak; as lately, though bot in few places, is tonefrom the various:kyids of Walduts. Spirits may be diftilled from the berries of the red eedar, Which fo much refembles thofe of the European jubapery Whiae $_{2}$ far better than owhat is generally dope, can be pade from the late grapes. From all kinds of grapes, the Perfimon fraits the bervies of


[^77] plums and cherries, with fimilar fruits; firituous liquor, and vinegar, may he obtained. The white thorn wil!, if it can be kept clofe. and low, make an impenetrable and beautiful hedge, by its long, Guarp, and folid fpears, and by its cluffering oniroms and large red berries. The new experiment of grafting foreiga kinds on their native grape vines, faid to be very promifing, may prove a good prefervative againf the rigour of winter. In all probability many fpecies of leaves would make good fodder for cattle, if gathered in the proper feafon, and well cured: this expedient is practifed in the מorth of Europe,* is of great importance to one half of the American States, which have, according to fituation, no pafture for five or feven months. Finally, we may fincerely wifh that the owners of venerable woodlands might regard them as priacipal ornaments to their country ; and while they clear a part for the purfoies of agriculture, leave thofe hills crowned with towering pines and itately oaks; fuffering likewie the groves of tulip trees and magnolas to wave among yetlow harvefts and blooming meadows. In fome of the old contries many gentlemen would purchafe fach rural charms at any expenfe, but muft wait till the evening of iife for the thade of their plantations; is it not then deplorable, that io many American farmers daily deftroy what their offspring of beiter tate wiil deeply Fegret t This evid might in a great meafare be leffened by a treatife on orpamental planting, adapted to the prefent circumfances of that country.

Half a century ago, philofophers thought it beneath them to inveftigate the economy of "domeftic animals. By this ridiculous pride, European countries haves fuffered much. The Swedifh naturalitts were roufed near thity years ago, to a ferious attention, by a peftilence among horfes and horned cattle, which deftroyed many thoufands in fome provipes. In America, this important ícience, has been much negletted. Not to enlarge upon a fubjects which efpeciaily concerns agricudtural focieties, we fhall only mention two or three particulars. America is not unfavourable to horfes; yet thofe of good quality are not very compon in many of the States, becaufe the natural hirtary of thefe noble animals is but litle cultivated. They are often difabled by want of proper care, and perifh by various diorders, ef pecially by fwelling in the throat, cholic, and the bots-if Sheep thrive

[^78]well in fome parts, but in others they die by dozens, without the owners knowing or inquiring into the caufe.
Horned cattle fuffer much when expofed to the winter's cold, which deftroys their hoofs even under the thirty-ninth degree.. But they and horfes are affected by excefs of heat in fummer; which not feldom caufes a fever, difcernible by their want of appetite, dullnefs, and a yellow tinge of the mouth and eyes. The beft European treatife or domeftic animals will more or lefs apply to divers parts of the States.
Goats would be very valuable in the rocky woodlands of America; as they are in thofe of Europe. They are very hardy ; their maintenarce is cheap, as they browfe fummer and winter on moft kinds of trees and flrubs ; they yield a great quantity of rich milk; and their fifins are very uffeful. The Angora goat, whofe fine gloffy hair is a material of the mohair, may alfo thrive as weH in America as in Sweden, where it was introduced by the patriotic Aftronömer.
Good orchards eminently unite the ureful and pleafing, gratifying, through the greater part of the year, the tafte, the fceat, and fight. Horticuluture was an early object in America, and has made conifiderable progrefs. At prefent their firft care fhould be; to prevent diftempers of the fruit trees, of late become very alarming. Peach trees, have till-within twenty or thirty years been very flourifing: fome Englifh writers , relate with amazement, that the Americans fatten their hogs on this fraits which is fo coftly in the north of Europe; and it is true, that many common farms abounded fo far in a promifcuous collection of better and worfe. But at prefent the peach trees are few, and generally in a fickly condition, through the greater part-of the country. Of this one principal caufe is a fly, that depofits hef-eggs' within the fem near the ground, which prodice a great number of worms, who quickly confume all the lower bark. Moft kends of plum trees are liable to decay, and the fruit is deftroyed by a fpecies of Al ; but the ravages of this infed have been for a long timine. Pear trees have neverr; indeed, flourithed well, bat of late far lefs: fome afcribe the blights of them to lightining, and hang pieces of in ron in the branches, to anfiver the purpofe of eleqtric rods. In föme places latély, cherity and apple trees have been attacked by vanioù diftempers'; which caufe the fruit to rot, and the limbs to decay in rapid fucceffion till the tree dies. This gangrene in fruit trees Bears a ftrong refemblance to the mortification of members in the human bodys the corruption fpreads quickly over a large limb, and
amputation is the only prefervative of the tree yet known. The lofs of peach orchards is a confiderable difadvantage, as their early bloom is the principal beauty of fpring; and the fruit is not only very pleafing, both green and preferved, but alfo yields by diftilling an agreeable and wholefome liquor, well known by the name of peâch brandy. The apple orchards claim a folicitous care, merely as great ornaments of the country; much more fo as they fupply a great article of diet and falutary beverage, equal to feveral fpecies of wine. An American treatife on fruit trees is wanted, which would fhow how far the beft Engiifh authors are applicable to divers parts of the United States; give a full account of all the beft fruits there cultivated, with their variation from local caufes; collect all the various names of the fame fruit, and fix one as national, to prevent a confufion that often fruftrates information, both foreign and domeftic.

Fifh ponds are ufeful decorations in places diftant from lakes and rivers; and it is matter of wonder why this advantage is not derived from ponds and ftreams which are fo common: a ufelefs and unwholefome fwamp may thus be changed into an elegant improvement.

## PHYSICO-MATHEMATICAL INQUIRIES.

Machines for abridging human labour are efpecially defired in America, as there can be no competition between them and the arms of induftrious labour, while thefe have full employ on her extenfive lands, which muit be the cafe for ages. Agriculture has the firft claim to the exertions of mechanical genius, as the principal fource of aacional profperity. Extent of territory, improved by artificial induftry, muft gield a great quantity of products at fo cheap a rate as to bear exportation to very diftant markets. : It is moreover a weighty confideration to the humane philofopher, that agricultural mechanifin would in the fouthern States fupply the labour of llaves. Among importent defiderata we may place thefe:-A machine for fowing broad-caft, fo as to fpread the grain even and in proper quantity; another for cutting drains and making banks on their extenfive marff meadows; an apparatus for clearing new lands, which ought to be a compound of coulters, faws, axes, and fcrews, fo that the trees may be putled out of the ground, cut in convenient pieces, and heaped; a better inftrument for reaping than the common fickle, fuch, for example, as the cradling fcythe of northern Europe; temporary faeds of eafy and

Fight confriuction for the prefervation of the reaped grain in wet feafons.

The many flipurecks that happen on the extenfive, and ofteri Aormy coaft of Amerita, render diving betls very neceffary; thefe machines are yet but little knowri.

A plenty of naval fiores, and numerous ports, render fhip building au important branch of national induftry, This noble art, which has long been cultivated with fuccers, would ftill be much improved by more expeditious modes of haniing timber, and of preparing the main piecess for the finifling workman@lip.
An extenfive inland navigation by locks apd canals, is now become a great object of legiflative care in feveral \$tates; it is to be hoped, that fuch perfons may be entrufted with tyefe important works, as have a perfect theory of hydraulics, and a practical knowledge of local circumftances, among which the force of ice in winter, and of rainy torrents in fummer, are to be duly eftinated.
As many new towns and villages will graduatly rife with the increafing population of the conntry, their fituation and form fhould be chofen with a view of permanent circumfances. A fare fupply of water is one great object. If the advantage of ports is defired; inquiry flould be made whether the prefent water-courfes are likely to continue; as in the ofdcountries, feveral towns have been immerfed, zadothers left far within land; by the increafe or dimination of the watex, or by the change of the channels. Healit and conveniency require feveral open fquares, wide freets, and a:direction of them calculated for fleder inthe wintery: and for:flade and ventilation in the fervent fanmer mortis.

Arckite tare diaims the following renrarks:-The polition of Howiess ought to fectire the fainning fummer breeze, and exclude the wintut btaft. Another bbect thould be to exclude from fommer









neighbouring countries, are unqueftionably the beft ever yet devifed; they worm the room uniformly with a quarter of the wood required for thefe laft mentioned, are free from any difagreeable fteams, and have the appearance of elegant furniture.* Larger farms require feveral buildings, efpecially in cold countries, where fore-houfes and warm dwellings for domeftic animals are neceffary If all thefe ftructures are formed on regular plans calculated for the value of eftates, and refpective local circumftances, the ufeful and agreeable may be united in a very high degree: a well-written treatife on this fubject would be very valuable.

To form with fpeed and conveniency an accurate map of the United States, aftronomical obfervations ought to determine the latitude and longitude of thofe places which are moft effential to the figure of the whole country, or to the fituation of certain parts in a political and economical view.

## INQUIRIES IN NATURAL HISTORY.

Natural hiftory, like a faithful guide, leads us through the myfterious mazes of nature, and opens to our enraptured eyes her fublime and beautiful wonders. How many precious plants are as defpicable weeds trod under foot in every part of the world! how many new qualities are from time to time difcovered in productions which have been known for centuries in countries long ago perluftrated with this facred lamp! what treafures may we not then expect in this new and valt divifion of the globe!-in the forefs of a thoufand miles hitherto traverfed only by favage tribes and mercenary traders; in the lakes, fome of which are inland feas, and rivers that wander through feveral States before they meet the ocean! neglect of natural hiftory under circumftances fo alluring would indicate a want of rational tafte. The great Linnxus wifhed that he could have explored the continent of North-America; may this wifh animate American philofophers!

The vegetable realm claims their firft attention. They fhould begin with a refearch of the ftores it offers for the prefervation and fecovery of health. The frequent appearance of trees, flyrubs and plants, whofe tafte and fent or analogy with weli-known phamaceutics is very promiging, would lead us to expect a very confidera-

[^79]ble ftock of native materia medica. But, although above an hundred of thefe fpecies are, or have been, more or lefs in ufg among the inhabitants, very few of them are well known as to the extent and peculiarity of their qualities, and a very fmall number is adopted either by the apothecaries or regular phyficians. On this view the following expedients merit attention-to fubfitute indigenous medicines of equal value for thofe imported, which by quantity or price caufe a great national expenfe, and that are liable to adulteration or depreciation by age; to point out the beft native plants in local diftrifts, with fixed names, clear defcriptions, and accurate niedical inftructions, for fafe, convenient and general ufe; to appreciate the merit of thofe drugs which are eftecned fpecifics in the wort epidemic or particular diftempers. Collecting all the botano-medical information at prefent attainable, we may judge what plants are moof interefting, in what degree they are known, and how this knowlecige may probably be moft improved: the Indians have feveral remedies againft the difeafes and accidents arifing from the climate and their favage mode of life; as fevers, rheumatifm, wounds, bruifes, fcalding, chilblains, bite of venomous ferpents; befides emetics, cathartics, fudorifics', and dietics. Thefe bave the fanction of time and fimplicity. It is aifo generally beliened, that they porfefs very important fecrets, of which only a few extraordinary fpecinens are related with plaufible authenticity. In domeftic practice, paticuarly of the country peciple, we obierve medical plants of geineral falubrity, ufed as detergents, tonics, fudorifics and laxatives; and others of pariculhr virtue in rhematifm, fevers, pectoral ailments, viferal obfructions, ulcers, external huts, poilons, female compiaints, and difcafes of children. Among the great number of thefe popular ciuts, particuler attention is due to thofe that are recommended by their faluary effects, atitefted by the patients or other perfons of credit ; and more fo, when the teftimonial is attenced. with a precile fatement of facts. In cafe of defective information, we may expect valuable qualities in thofe which are in vogue over large diftricts; becaufe this general efteem cannot be owing to imitation in a country, where intercourfe between diftant places has till of late been very limited, and where botanical cúriofity is yet very rare. The medical plants which America has in common with other countries, pollefs the fame viatne, under variations from climate and local circumftances; the too common opinion of their inferiority will often be changed by a fair trial. Different fpecies alfo promife a re- , a decoction of its wood and buds being of ancient fenn among them.|| The laurus effivalis, fice-wood, Benjamin tree, is alfo diftinguifhed with that name by the people in the northern parts, for

* Compare this book with Dr. Sclveph's, and Johu Bartazn's notes to Siot's Medicina Britannica, reprinted in Philadelphia, 175 I,
$\because+$ Kalm fays, that in Wer-ferfey many were eared by the baik of the roct, who had in vain tried the Peruvian : in that fickly coumary Dr. N. Collin, of Pennfyivania, made ufe of it, and thinks it wofthy, of a foll trial.
$\ddagger$ Cailed St. . Peter's wort, Indian currants; a \{pecies of boneffuikle. Se: Arbirf. Amer. of Marfhal.
§ See ditio: a fpecies of winter-green.
II Geefchiehte der Miffion der Evangelifchen Brüder unter den Indianceiz in Noud Amen rica, by Lokkiel, publified 1;8:-
the falutary decoction of its wood and leaves.*. The bark of the liriodendron, tulip tre, is alfo very generally efteemed a good fubftitute for the Peruvian, efpecially that of the root. We mayy obferve on thefe: and other febrifuges, that the variety probably correfponds with the diverfity of the fevers, which is very confiderable, from latitude, feafon, and perfonal conflitution: thus, for example, the above fpice-wood is of peculiar benefit in that moderate butt tedious kind, called Jow fever, which is almoft continual.

Againft rheumatifin thefe are worthy of trial : the root, in decoction, of aralia Jpinofa, angelica rree; the cones of pinus Arobus, white pine; the twigs and roots of magnolia glauca, fwamp faffafras, both in decoction and bath; the frefh bark of juglans alba, hickory, applied externally, is much ufed by the Indians. $\dagger$

Dyfentery has been cured by the bark and gummi of liquidam: bar ftyraciflua, fweet gum ; cynogloflum Virginianum, foliis amplexicaulibus ovatis, hound's tongue ; triofteum angufifolizm, floribus oppofitis pedunculatis ; the root of white oak in powder.

Antidropfical, well recommended, are the leaves of callicarpa Americana; $\dagger+$ the root, in decoction, of aralia nudicaulis, foliis binis ternatis; that of faffafras in extract.

Cholic is removed by the oil of the above fpice-wood berries; the flatuent and hyfteric kinds, eminently fo by angelica lucida; foliolis æquaiibus ovatis incifo-ferratis, called therefore belly-acb root.

The beft àmong pleuritic remedies muft be the pleurify root, fo much extolled in Pennfylvania, defcribed by Schoeph afclepias tuberofa, foliis alternis lanceolatis, caule divaricato pilofo; another afclepias bears high value in Maryland, called alfo butterfly root; the afclepias. decumbens, pleuri:y root, mentioned by Mr. Jefferfon in his notes on Virginia, muft be one of thefe. The bark and berries of the above magnotia, either in decoction, or infufion of fpirituous liquors, is generally falutary in thofe great colds which affect the fides, back and breaft with-painful fitcbes, attended with febrile chills and general languor.

[^80]$\ddagger$ A flarub growing in the fouthern Statos. Arbuf. Am.

Anthelmintics are the chenopodium,* and the fpigelia Marylandica, caule tetragono, foliis omnibus oppofitis, Carolina pink, a fouthern plant, it will deftroy the worms, but caution in the dofe is requifite.

Spiræa trifoliata, foliis ternatis ferratis fubæqualibus, floribus fubpaniculatis, ipecacuanha, Indian phyfic, baumont root, is an effectual and fafe emetic. Podophyllum peltatunn, foliis peltatis palmatis, May apple, is lately coming into practice as a laxative by an extract of the root that removes its emetic.quality. $\dot{t}$ Convolvulus panduratus grows in the middle latitudes; and in the fouth fome fpecies fimilar to the convolvulus jalappa, not well explored.

Ulcers and cancerous fores are frequent among thofe whofe humours are vitiated by perennial fevers ; in a variety of remedies, thefe deferve notice: iris verficolor, afhes of magn. glauca, in form of plafter, and a ftrong bath of faffafras root, have cured ulcerated legs.: The root of faururus cernuus, foliis cordatis petiolatis, amentis folitariis recurvis, lizard-tail, bruifed and applied as a poultice to fore and impoftumate breafts will ripen and heal them. A pecies of nigella, called gold thread, Indian mouth root, is an excellent remedy for an ulcerous mouth. $\dagger$ In New-England a fecies of getm, wa-ter-arvens, throat root, cure all, is an efteemed remedy for uicerated fore throat; a decoction of the root is both a gargle and drink. $\xi$ Rumex acetofella, floribus dioicis, foliis lanceolato-hạtatis, four dock, cancer root, is recommended againft inveterate ring-worms; this is biennis and found over the whole country; the juice is mixed with vinegar; (Schoeph) another is mentioned in the Bofton Memoirs the root of which in deccoction is ufed in fore throat. The phytolacca decandra, floribus decandris decagynis, poze, has of late given promifing experiments in the cure of cancers; the juice of the berries is infpiffated by the fun; the young fprouts in fpring are eaten as afparagus, but grown too far they are violently cathartic; this bufh is common throughout the States.

[^81]Prefervatives againft venomous fnakes feem to be fcattered over the whole country, and they merit full inveftigation, in order to provide prompt remedies, in every place, and againft different kinds of ferpents, efpecially in the new fettlements. Convolvulus purpureus, purple-bindsured, is very powerful, if it is true that the Indians can handle rattle-fnakes after anointing the hands with its juice, as Catelby relates; this grows in the fouth. A fpecies of juffix is mentioned in the cited memoirs, as growing in the northern countries near the haunts of rattle-fnakes, called rattle-fnake plantain. The hieracium ©enofum, foliis cuneiformibus hirtis, fcapo nudo craffifimo erecto, grows from the north to Virginia inclufively ; is called poor Robin's plantain, and faid to fruftrate the bite both of the rattle-fnake and of his fuppofed precurfor the pilot-fnake. Erigeron, likewife called Robert's plaintain in Pennfylvania, is deferibed by Dr. Schoeph thus ${ }_{2}$ " radix repens; folia radicalia ovata, bafi attenuata, dentata dentibus paucis a medio ad apicem glanduliferis, obtula, pilofa, venis paucis. Scapus bruncialis, pedalis, ftriatus, villofus, uniflorus, \&cc. \&c." Dr. Otto, a refpectable practitioner, informed him, that the herb ought to be given in a plentiful decoction, and alfo applied with the root to the wound. The herb of folidago virga aurea ${ }_{2}$ golden rod, is ufed in the fame manner.* The root of aletris $f a-$ rinofa is taken in powder, or bruifed and fteeped in liquor; this root is called ftar-root, blazing ftar, devil's bit, and greatly efteemed both by the Indians and the people of feveral States for many qualities. $\dagger$ The polygala Senega is well known. The plantain of Negro Cæfar we juft mention, with a wifh that an authentic account could be obtained of the experiments for which he obtained a public reward. Many credible teffimonies agree in the fact, that the Indians have extraordinary fikill in curing the bites of ferpents; 'but whether any fpecific antidote is known appears doubtful : the plants in ufe ait, however, as powerful fudorifics and abforbents: a narrative on this fubject would here be toof prolix for our plan,

[^82]Of late years madnefs of dogs has been more frequent; the Ywertia difformis, recommended by Clayton, fhouid be tried.*

In the fearch of new medicines, ficy trees and balmy ever-greens are particularly inviting. The fivamps of the low country abound in plants of aromatic feent; the magnolia glauca, fo frequent in them, feems to hold out her fragrant lilies and crimfon berries to the fkeleton-prey of Stygian vapours; probably her loveiy fiffers are alfo compaffionate. $\dagger$

Indigenous efculents claim attention in feveral views. Thofe roots, herbs, grains and barks, that in cafe of need can fupport life, may be ufeful to travellers in the wildernefs, and to troops that carry on an Indian war; the favages make this ufe of the inner bark of the elm, and the roots of aralia nudicaulis. The falleds of many kinds, gathered in divers parts of the country during fpring, fhould be generally knomin. Several wild fruits might be improved by culture, as walnuts, crab-apples, papaws, annona, plums, grapes, perfimons, honey-locult, gleditfia triacanthas; fome perfons have planted orchards. of this and made plenty of metheglin from the fweet pods. While the fugar maple is of late juftly valued, its kindred alfo merit more attention : we are credibly informed, that in Canada equally good fugar is made from the weaker juice of the red maple, a tree, that abounds through all the States. The chefnut oak is faid by Schoeph to yield in fpring a copious agreeable drink; other trees may have fimilar faps. Aromatic plants deferve notice: the barks of young faffafras and of calycantbus foridus $\ddagger$ much refemble cinnamon : the acorus calamus is under name of fpice-wort, ufed in Maflachuletts. The plants ufed as tea in divers parts deferve examination : the cafine, called South fea tea tree, is oblcurely known, but has long been famous among the Indians. §

Many vegetable dies are already in ufe, both among the Indians and the inhabitants; fome of them are aifo recorded by writers, but a collection of fcattered practice, and a felection of the beft in every kind, are yet wanted. In this branch, the practice of other countries may, alfo be adopted: thus the rbus toxicodendron vernix, varnifh

[^83]tree, poifon aflr, is probably the fame with the valuable feccies of Japan.*

Saps, roots, Ieaves, flowers, barks, may be ufeful in a variety of modes; for example-The roots of afculus pavia, fcarlet borfe chef nut , and of jucca filamentofa, filk grafs, are ufed for foap; ; chefnuts can be prepared for the fame ufe. The twio kinds of myrica, candle berry myrtle, are known: the melia azedaracb grows in the fouth, under the name of bead tree, but its berries are not yet in ufe for tallow, as in Japan. $\ddagger$ The afclepias, called filkweed, has a fine white down in its pods, which in Maffachufetts is carded and fpun into very good wick-yarn. While oaks abound, an extract of their barks might, as an article in tanning, be a valuable export.
Vegetable medicines for cattle are very interefting; a critical comparifon of European treatifes, with what is written and practifed in America, will point out the beft.

The beauties of the American flora are yet difplayed only to thofe admirers, who have fought them, in fields and woods, from fring to autumn, in northern and fouthern climes, in the grand magniflora and the humble lily of the valley. Many of the wild flowers would adorn gardens, and embellifh groves and meadows: but a great part of thefe are known only in their native places, and fome have not even obtained a vernacular name. Flowery fhrubs áre gradually coming into more notice; and fome of the fineft will endure the winter of Pennfylvania; the chionanthus, frow drop, fringe tree, calycanthus floridus, bignonia radicans, trumpet flower, and the beautiful Frankitinia, all grow well near Philadelphia.§ Several of the trees moft agreeable by foliage, bloom or lofty growth, have a fpentaneous wide range, and others will, under a kilful hand, pafs their natural limits.||

[^84]Our remarks on the animal domains fhall begin with the fmall tribes, becaufe' fome of thefe do remarkable mifchief. The Heffian fly has for feveral years made great havoc in the wheat fields throughall the'middleStates,* and the canker worms, caterpillars, and other vermine, lay wafte the orchards; fome remedies will hopefully refult from the inquiries, of late, begun in feveral places. Hofts of locufts fome years infeft the woods, and caufe confiderable damage by devouring the leaves of trees over large diftricts, many of which decay when thus expofed to the burning fun; they lie in the ground for a period of years, not yet afcertained; appear in the latter part of the fpring, when the oaks are in perfect foliage, aña in a few weeks difappear. $\dagger$

Venomous infects are rare, and obfcurely known, as they feem confined to the woods. A fpecies of thefe, called mountain fpider, that haunts the inner parts of the fouthern States, is faid to be large, ftrong enough to take fmall birds in the net, and by his fting to produce violent pains at the heart, inflammations with alternate cold fweats, tremors,' frenzy, and death, if proper cure is not obtained. In the middle State there is a black fpider, whofe bite caufes great pains and a tranfient blindnefs, but is not mortal. A large ant, with a long fting, conmon in Maryland and farther fouth, is alfo very noxious.

Among the handfome infects of America, the fire fly is the firft; thoufands of thefe illumine the fummer nights, and by their gambols in the air, prefent a fky full of falling ftars ; $\ddagger$ but the Americans know not where thefe lamps are hid in the long winter nights.

A friking mechanifm is remarkable in the horin beetles of various kinds, and efpecially in the wood fawer, who with two curve inwardly dentated prongs, can cut off fmall twigs of trees. We venture to add a zoophyton in the Ohio country, which alternately

[^85]Voz. III.
is vegetable and animai.* But without fuch extraordinary phenomenon, the economy of the numerous little animals is wonderful enough to awaken our attention, efpecially in this country, where if is yet unexplored.

Thirty or forty feecies of frakes are counted, but feveral are very imperfectly known, efpecially thofe which are rare or local. The horn faake is now feldom feen, but many accounts agree, that the spur of his tail is fo yenemous, as to kill young trees, if by accident it frikes them. The king faake of the fouth is not feen, we believe, far north. The double-headed foake may be a monftrous production; but two feccimens of it are found in Neww-England, and twa more are now in Mr. Peale's mufeum : that fome kinds of ferpents charm birds and fquirrels is a fact, but in what manner we know not. Fortunately the fmaller number is venomous, but which fpecies fhould be avoided, is an interefting queftion; though the green fnake, imperceptible in the grafs, is harmlefs, fome that occafionally come near houfes, are not fo.

On quadrupeds in general, two inquiries are interefting; what is the fpecific difference from thofe of the fame genus in the eaftern world? And how doth the fame fecies vary in America under different latitudes? In the firf the tygers and panthers require particular notice; in the fecond the bear, which frequents the interior country from north to fouth; and the panther, which has alfo a wide range. Among thofe peculiar to North-America, the moofe deer is yet, we believe, undefcribed, and known to few perfons below the fouth of Canada. $\dot{\dagger}$ The opoffum, common in America, and long known for fingularities, is yet unexplored in the greateft of all, to wit, that the female breeds her young at her teats within the false

[^86]belly': many perifons in diftant quarters affert they have feen them adhering to the teats when friall as a pea. The vaft mammoth is perhaps yet ftalking through the weftern wildernefs: but if he is no more; his remains fhould be carefully gathered, and attempts made to find a whole ikeletoil of this giant, to whom the elephant is but a calf.

The great herds of buffaloes in the weftern country are a valuable mational poffeffion, a wanton deffruction of them fhould be checked, and trial of domeftication would perhaps, be both practicable and uffeful.
The great number of birds in the old fettlements have been defcribed; but many equivocally, and our knowledge of their habits is in general very famall. The Americans fhould not indifcreetly deffroy tholé deemed of no value; who knows what part is affigned to them in the coonomy of nature? Perhaps the numerous tribes of woodpeckers fave manỳ trees from deftructive worms. As to the ufeful and ornamental birds, they demand proteftion againft licentions and greedy tyranny ; the beautifal and melodious birds diminift faft, and the tarkeys, once fo abundant, have long ago been drove into the remote woods.

General knowledge of the fíhes of America is very limited and confured: of thofe in the weltern waters we have only reports; there never has been from eye witnels a tolerable account of the cat filh; that weighs from feventy to one hundred pounds. Thofe proper in fifi pónds cannot be felected without knowing what kind of water; food, \&óc: they require.

Natural hiffory demands efteēn from American feminaries of learning; and hionorary degrees in this purfüit would be much better beftowed than on mininfers of the gofpel, the only good of which is; to increafe the privilege of, and beget a blind veneration for a clafs of men who ought to be diftinguiihed from fociety by nothing but their fuperior piety and tirtue: the principal feminaries flould immediately form botanical gardens, on a plan fo liberal as gradually to receive all the trees, flirubs, and plants moft valuable in every refpect: Mufeums are alfo very important, for exhibition of both native and foreign productions.* Finally, it is neceflary to fix ge-

[^87]neral names for every vegetable and animal of public utility, that greati numbers may receive and impart information.

## METEOROLOGICAL INQUIRIES.

Changes in the atmorphere have fuch important confequences on the affairs of human life, that, the art of prognofticating them is very beneficial. It has of late years been cultivated with great affiduity in various parts of Europe, and the feries of obfervations will gradually form a fyftem that may at leaft unite probable conjectures with much certain knowledge. Several circumftances of the United States point out correfponding inquiries-they are fubject to fudden guifts of wind, and fome tornados that rapidly pafs over a fpace of one or two hundred miles: from the beginning of fpring till the fetting in of winter, thefe occafion many unhappy accidents on theis extenfive coafts and ample navigable rivers. Their tranfient ftrokes are, however, not comparable to thofe fevere forms that generally vifit the Americans two or three times in that feafon: after thefe, the gazettes announce numerous deplorable ilhipwrecks, and other difafters; coming from the eaft with heavy rains, they generally caufe inundations, which overflow a vaft extent of meadow grounds, on the lengthy rivers and winding creeks, and fometimes damage wharfs and fores of commercial towns. A forelight of all thefe would enable them to elude their furs : veffls might ftay in port, or feek 2 fhelter; merchandife might be fecured; the hay might be removed. and the cattle, which fometimes perifhes by the fudden tife of the water. In fummer the fudden gufts happen generally towards evening, after a fultry calm for fome hours: when attended with thunder and rain, warning is given by the rifing clouds: thofe with a clear Iky are lefs frequent, and preceded only by light eddies in the air for fome minutes. The tornados are probably announced by fome remarkable fymptoms, though their happily rare occurrences has prevented attention; the air is, we believe, very fultry for two or three days, and on the laft, fomewhat hazy with tremulous light breezes from the weft. The eafterly ftorms are uifhered in by the gradual thickening of the clouds and increafe of the wind for many hours.

The irregularity of the feafons is a great impediment in the bufix nefs of focial life; the fallacious appearance of an early fpring often invites the hufbandman and gardener to planting and fowing, which will be injured by févere frofts and cold raius. The beginning
of winter varies alfo by feveral weeks: after the firft of December, miid weather is often changed into cold, that within two or three days fills the rivers of the northern and middie States with ice, by which veffels outward bound are detained, and thofe coming on the coalt fuffer feverely. A greater difadvantage of this variation is, uncertainty of the feeding time, on which much depends the future crop ; if it is too early, the luxuriance of autumnal vegetation exhaufts the root; if too late, it cannot acquire fufficient firmnefs to bear the froft. The Americars have tro prognoflics of winter which are founded in nature : the migration of wild geefe flows that the northern waters are freezing, and that they may expect fevere north-wefterly winds: abundance of rain, by cooling the air and wetting the earth, prepares both for the imprefion of the frofts; increafing number of partridges, pheafants, and other ground birds in the populous parts, with the appearance of bears, doth alfo indicate that the wefteru woods are already covered with fnow. Mild winters are alurays fucceeded by cold forings. Early thunder is a fure token of immediate cold weather for a week or two. The progrefs of the vernal fealon would moft probably appear from an accurate Calendarium Flora; the bloom and foliation of fome trees being unfolded, not by an occafional warmth of the air, but by a gracual penctration of the heat to their deep roots, proves at leaft an afcendancy of the vernal temperature not eafily overcome by the northerly gales.

The fudden alterations of cold and heat throughout the year, would often be lefs injurious to health, by forefeeing them : general rules are thefe, exceffive warmth for the feafon feldom continues above a few days, and quickly changes into the oppointe extreme: fine days in winter, fpring, and latter part of autumn are iminediately fucceeded by cold and wet, rain or fnow, according to feafor and latitude; wherefors they are called weather breeders.


[^0]:    * A Copy of this patent may be feen by refering to IIazard's Hiftorical Collecions, page 327.

[^1]:    * See vol. i. page Ióz to 15.5 .

[^2]:    of the governor and council, and of two burgeffes, to be chofen

[^3]:    * Sland's Ioquiry iato the Rights of the Britifh Colonies.

[^4]:    * Bland's Inquiry into the Rights of the: Britifin Colonics

[^5]:    * Chalmers' Political Annals, under the head of Carolina.
    $\ddagger$ Defence of the American Confitutions of Goyernments by Jobn Adams, Efq. 1. ${ }^{5} 5 \cdot$

[^6]:    $\div$ See Ramfay's Hiftory of the Revolution in South-Carolina, and the Hiftory of Carolina and Georgia, anonymous, fuppofed to be by Heweit.

[^7]:    * See Ramfay's Revol. South Carolina, vol. ii. page 18r.

[^8]:    * For a more minute hiftorical account of this State, fee Hewitt's Hiftery of SouthCarolina and Georgia.

[^9]:    * Page 195, Vol. I.

[^10]:    * In point of fize, the towns in the United States may be ranked in this orderPhiladilphia, New-York, Bofton, Baltimore, Charlefton $\boldsymbol{2}_{2}$ \&c. In point of trade ${ }_{2}$ New-York, Philadelphia, Bofton, Charicton, Balimore, scc.

[^11]:    * General Lincola.

[^12]:    N 2

[^13]:    - Don Ulloa mentions a break, fimilar to this, in the province of Angarez, ia South-America. It is from fixteen to twenty-two feet wide, one hundred and eleven deep, and of one mile and three quarters continuance, Englifh meafure. Its breadrh at tog is not fenfibly greater than at bottom.

[^14]:    * It is afferted, as an undoubted fact, by a number of gentlemen well acqupinted with this town, that, in 178I, "one child only born in it had arivived to manhood, and he was a cripple!

[^15]:    * As a proof that thefe are the fentiments of this gentleman, we ber leave to introduce the following quotation from a letter of his on the fituation of the flaves, \&ec. int this State, and the abolition of the flave trade, written to a Diffenting Minitter.
    " The toleration of flayery indicates. yery creat depratiti of mind; gec.

[^16]:    * This fum is equal to eight hundred and fifty thoufand pounás Virginia money, fix Fundred and fify-feven thoufand one hundred forty-two guineas.

[^17]:    * The river Ohio is, bryond all competition, the mof beautiful in the univerfe, Whether we conflder it for its meandering coulfe through an immenfe region of forefts, for its cican and elegant banks, which afford innumerable delightful fituations for cities, villages and improved farms, or for thofe many other advantages, which truly entitle it to the name originally given it by the French, of La Belle Riviere. Journal of a Tour in Kentucky, Amcrican Mufeum, for 1792.
    $\frac{1}{t}$ This riter is a piatcipal branch of the Kentucky.

[^18]:    * As the quality of the land is the grest ainent to euminamis exery one muft be pieafed with the foil, and was that the onivy thing requifinte to make a coctiry valuable
     "elicd. After you are got fairity into Kentuciory, the forl aifinumes a black appearance, yich and light in fubftance; and flowadd you wifit the coumiry in tive friing, you will be furprifed at finding no leaves under the urees The reaflom is, the ground is fo rich and damp, that they always rot and diferpeer witin the wimuer, exoept wibere the foil is evidently poor for that country. If then bears the appearance of the better fort of land in Penniylvania and Jerfey, thorgh differing widely im funflame, there being no fand to be ract with in the foil of Kentucity.

    There is a fpecies of fiat or fplit linme-fione that pervadies aill the conintry, lying as unequal depths. In the rich and Hack-loating foil in lies mear the furface, and, in general, the nearer the fone lies to the furface, the richer the lamil is foumd to be. At-the came time, the ftone does not, as I expected, innperie tille growith of the trees, as they grow every where to an amazing beight, exeepe mear the finit licks, where the inflinence
    

[^19]:    * Among the many accounts that have been given or Kcntucky, none of them have done juftice to the timber. Oak and locuatonthe flat hands are common at five feet diameter. Poplars growing on the beack lands are fo common at five and fix feet through, as bardly to be noticed. The beach grows to the thickucis of four or five feet, and both of the latt mentioncd to the height of one hundred and twenty to one hundred and thirty feet. Thefe, and the advantage of pafture in the woods, conftitute the great excellence of Kentucky. American Mulecim, 1792.
    t The ftories told of the abundance of grafs in the woods, are in many inftancestruc. . You frequently find beds of clover to the hore's knees-fometimes a fpccies of rufhgrafs, commonly called the wild rye, from the fimilaity of its falk to the rye fo called among us; in other places we meet with large tracts of wild canc, very much efteemed - by the wild and tame cattle, it contincing in ve:dure all the winter. There is alfo a fpecies of vine, called the pea vine, from its producing a fmall pod, refermbling tiat of the garden pea, of which both horfes and cattle are extremely fond. Thefe are feattered

[^20]:    * No land appears better adapted to the culture of tobacco than that of Kentucky, and it is now tecome one of their ftaples. At prefent there are but few orchards; but is the country opens, they will find it their intereft to plant them.-The flour I have feen made here is generally black, and not fo good as might be expcited. $\because$ Polibly is may be the fault of the milis, or it may proceed from the richnefs of theground, though it muft be confeffed the grain itfle losks well. Anerican Mfufcam, 1792.

[^21]:    * Mr. Jefferfon informs us, that a late governor of Virginia, having afked fome delegates of the Delawares, what they knew or had beard refpecting this animal, the chief Epeaker immediately put himfelf into an oratorical attitude, and with a pomp fuited to the fuppofed elevation of his fubject informed him, that it was a tradition handed. down from their fathers, "That in ancien: times a herd of them came to the Big-bone licks, and began an univerfal defruction of the bears, deer, elks, buffaloes, and oihcr animals which had been created for the ufe of the Indians: that the Great Man above, looking down and feeing this, was fo enraged, that he feized his lightning, defcended tothe earth, feated himielf upon a neighbouring mountain, on a rock, on which his fcit and the print of his feet are ftill to be feen, and hurled his bolts among them till the whole were llaughtered, except the big bull, who, prefenting his forchead to the fhafts, thook them off as they fell ; bat at length mifting one, it wounded him in the -ide; whereon, fpringing round, he bounded over the Obio, the Wabalh, the nlinois, and, finally, over the great lakes, where he is living at this day:

[^22]:    * This tract is purchated by zgents; and vefted in the hands of truftes for the fecari:y of the fubsfribers.

[^23]:    FHicherio there has not been minch more grain raxied than has been confumed by the Fi:bitants; and tise perfons emigrating therc; together with the trade down the river ${ }_{2}$ may arord a fine profpect in theory, to individuals, but will never tum out of any anoid acisatage to the public of this fettlement; the difficulty in returning up the siver muft render the voyage terrible. To make head againft the fream mult be done : $;$ dint of feve:e labour and main ferength, and would require exertions which no man wouid ever with to make a fecond time, who was not urged by the inducement of gaining a fpecty fortune thereby. Fo:urnalof a Tour in Kentucky.

[^24]:    * Article 8th of the late definitive treary, fays, The navigation of the Miffifipgi river, from its fource to the ocean, fhall for ever remain free and open io the fubjeeAs of Great-Britain and the citizens of the United States,

[^25]:    * As this account of the litrary is effentially different fram that given by Mr: Morfe, and every other writer we have met with, the editor thinks it right to ioform the public, that he inferts the above at the defire of the Rev. Dr. Gordon himerdf.

[^26]:    \# There are two falt fprings upon Licking, both of whish are now workod with fuicceís.

[^27]:    * That State paffed an Act of Affembly in July 1792, for removing all the obfructions between Huaifon's river and lake Ontario; by which means, when it is done, there will be an inland navigation, taking its various courfes of nearly two thoufand miles in extente.

[^28]:    *The boundary line dividing the two States of South-Carolina and Georgia was long the fubject of controverfy; the former claiming the lands lying between the NorthCarolina line, and a line to run due weft from the mouth of Tugulo and Keowee river; the latter contended that the fource of Keowee river was to be confidered as the head of Savannah river.
    For the purfore of fettling this controverfy, commifitoners were appointed'in April 3787 , by the contending States, vefed with full powers to determine the controverted boundary, which they fixed as follows:
    "6 The moft northern branch or ftream of the river Savannah; from the fea or mouth of fuch ftream, to the fork or confluence of the rivers now called Tugulo and Keowee, and from thence the moft nortbern branch or ffream of the faid river Tugulo, till it inrerfects the northem boundary line of South-Carolina, if the faid branch of Tugulo extend fo far north, referving all the iflands in the faid rivers Savannah and Tugulo to Gcorgia ; b:at if the faid branch or fiream of Tugulo does not extend to the north boundayy line of South-Carolina, then a weft line to the Miffifippi to be drawn from the bead fpring or fource of the faid branch of Tugulo river, which extends to the higheft monthern latitude, fhall for ever hereafter form the feparation, limit and boundary betwen the Stite; of South-Carolina and Ceorgin."

[^29]:    * It is worthy of remark, that the tide uniformly rifes confiderably higher in the night than in the day ; often from ten to twelve inches. The fact is certain ; the caufe is unknown.

[^30]:    * We are not abfolutely certain, tias hefe unjof mintinclions lave nor face been done away: Edior.
    $\mathrm{LI}_{2}$
    A ccm-

[^31]:    * Prancunced Ottamarians.

[^32]:    F Bartram's Travels

[^33]:    * The following account of a Georgia planter's method of fpending his time is extracted from the American Mufeum for 1790 :
    About fix in the morning he quits his béd, and orders his horfe to be got ready; he then fwallows a dram of bitters to prevent the ill effeets of the carly fogs, and fets out upon the tour of his plantation. In this rous he takes an epporiunisy to flop at the nogioe houfes, and if he fees any lurking about home, whofe bufnefs it is to be in the feld, he immediately inquires the caufe : if no fufficient caufe be given, he appliss his 'rattan whip to the fhoulders of the flave, and obliges him inftant!y to decamp. if fickacis be alledged, the negroe is immediately fhat up in the fick-houfe, bled, purged, and kept on low diet, till he either dies or gets inio a way of recovery. After having examined the overfeer relative to the welfare of the poultry, hogs, cattle, \&sc. he proceeds. round the farm, takes a curfory view of the rice, corn, or indigo fields, and examines isto the fate of the fences and other inclofures; about the hour of eight, his circuit is finifhed, when, before he alights at his own door, a tribe of young negroes, in the primitive ftate of nakednefs, ruth out to meet him, and receive the horfe.
    Breakfaft being over, he again mounts a frefh horfe, and rides to the county town, or the firft public houfe in the neighbourhood, where he talks politics, inquires the p-ice of produce, makes bargains, plays a game, at all-fours, or appoints days for horfe races or boxing matches; about four o'clock he returns, bringing with him fome friends or acquaintance to dinner. If the company be lively or agrecabie, he rarely rifes fiom table before fün fet. If it be a wet evening, or the weather very difagreeable, cards or conrerfation employ. him till bed time. If it be fair and no moonlight, after an early fupper, a fire is kindled in a pan, and two or three of them fet out ftored with fome botdes of brandy, preceded by a negroe who carries the fire, in order to thoot deer in the woods, as thefe çreatures are fo attracted by a light, that they conftantly ftand ftill, and fis theireses upan the blaze, by the reflection of which from the eye-ball they are eafily difcovered and Thot. Sometimes, however, it happens, that tame cattle that have becr turned into the woods to range, are killed by miftake.
    About midnight they return, according to luck, with or withoutgame; their fhins and faces fadly feratched, and themfelves fit for nothing but to be put to bed. This is the general routine of exiftence among fuch of the Georgians as live in the more retired and woody parts of the State. Others have their weekly focieties, for fentimental and
    

[^34]:    * There are a number of us born.

[^35]:    * More mignt be faid witin truth.

[^36]:    * Witnefs the feady price of their produce during thic embarga.

[^37]:    * The flave traje is abolifhed, and American citizens cannot lawfully be emplored therein, and in fome inflances negroe flavery; in others they have adopted efficacious meafures for its certain, but gradual abolition. The importation of flaves is difcontithue:, and can never be renewed, fo as to interrupt the repofe of Africa, or endanger the tran uillity of the United States. The feady ufe of cficacious alternatives is preferred to the immediate applicition of more fong remedies, in acte of io much monentiary and intrinfic importance

[^38]:    * It is probable thiat ail the jewels and diamonds worn by the citizens of the United States, their wives and daughters, are lefs in va!ue than thofe which fometimes form a part of the drefs of an individual inseyeral countries of Europe.

[^39]:    it This oblervation is applicable to the vicinity of New-York alfo, where they find that wood intended for ufe in the fouthern climates, cannot be fufficiently feafoned. In Penifylvania it mary. Indeed this remark will evidently apply to the whole northera fea soaft of America.
    Yoz. HI.

[^40]:    * This holds almoft throughoutthe whole extent of the two States ; from the more ingland Gituation of Pennfylyania, both with refpect to the Atlantic fea, and the lakes.

[^41]:    * This road has been confiderably improved, and a poft nọw pafles weekly through it from Philadelphia to Kentucky.

[^42]:    * A $\log$-houfe is very foon erected, and in confequence of the friendly difpofition which exifts among thofe hofpitable people, every neighbour will come to the afifitionte of each other upon occafions of emergency. Sometimes they are built of round logs entirely, covered with rived afh fhingles, and the interffices fopped with clay"; or lime and fand, to keep out the weather. A houre of this fort may be made as comfortafle and elegant as any other kiind of building, and is therefore the moft convenient, as it may be ereeted in fuch a manner as to anfwer the circumftances of all defcriptions of perfons.

[^43]:    *. By wealth is meant the comforts of life.

[^44]:    $\% \mathrm{Mr}$.
    Soos in P:
    therling 3 .

[^45]:    * Mr. Cooper obferves, he could not find on inquiry that the moft expenfive perCons in Pailadelphia and New-York, lived at an expenfe berond two thoufand pounds terling a yca.

[^46]:    * The exports of Penniylvania, for the quarter ending the 3rft of December, 179:, were one million feven hundred and forty thoufand fix hundred and eighty-nine dilars.
    $\dagger$ Not having obtained correetly the exports of Connecticut for this year, ye have not calt up the total amount.

[^47]:    * Urbarna has all the appearanic of a inferted villaze.
    t $\mathrm{By}_{\mathrm{y}}$ cleared is meant, the fmatit tiens and fhribs grubbed up, asd the larger trees cut:

[^48]:    *Thefe prices are higher than in the northern States; the tables are allo pientifuily fupplied. In the artic!e of breakfaft, all over the Amcrican continent, are inciuded, ham, eggs, fteaks, chops, \&cc. fome or all of them. You are not obliged to drink after dinuer. You bave nothing to give the fervants or waiters. In the article of fupe per, tea and coffee are ufually included as accompaniments.
    $\pm$ This lift conrains, in generad, articles not mentioned in the preieding lift.

[^49]:    * The cows range at pleafure in the woods; no attention is paid to their calving; they are not of ten millked above once a day.

[^50]:    * A waggon will go in four days to and from Alexandria. Eftates here are frall and are generilly. cultivated without daves.

[^51]:    *. The peopic of Carlife have the character of being anfociable, and jealous of new-comers, and always carcful that they thall not have too much influence in public iffui:s.

    Harrifburgh and Middle-town are delightfully, and with refpect to trade, eligibly fruated on the banks of the Surquehannah, but are fubject to intermitting complaintso

    + At Carlife and Lancatter, and throughout the Pennfylvania part of the Shenandoah valley, the Dutch fetters are numerous; their unremitting induftry and abs. achment to plase always makes land comparatively dear in their neighbourhood.

[^52]:    
    

[^53]:    * Not by violence, but the well-known diforders of paper money in various forms.
    + Perhaps, however, erelong it will be found, and univerfally acknowledged, that the prevalence of nervous diforders in Europe and America is owing to an ill-directed or corrupt education, particularly amongft females, where they moft prevail ; indeed, it is,hardly poffible to contemplate the prefent fyftem of education without being convinced of this truth: Inftead of fortifying the mind with fentiments fuited to the various viciffitwates to which we are expofed in this life; inttead of enlarging and cultivating the mind, and preparing it to meet adverfity and profperity without being difmayed at the one, or lifted up with the other, the whole attention is paid to exterior accomplifhments; and the mind neglected, becomes the victim of unruly paffions, of affectation, and a contemptible fpecies of falfe delicacy, or elfe of defpondency; either, or all of which, if they are not the immediate caufe, are yet the means by which nervous diforders are fed and nourifhed.

[^54]:    * It is pleafing to fee how fanaticifm declines with agricultural improvement in many new fettlements, and how refnement of public manners keeps pace with a preference of enlightoned teachers.

[^55]:    *. This arrangement of the oaks is fuggefted by Dr. Cutler. In common parlance, the oak, which is ufed for pipe ftaves and thip timber, is called the upland wihite oak; it is one of the mont ufeful and valuable trees of the American foref.

[^56]:    $=$ Nat. Hif. Vol. v. p. 267 . It muft be oblerved, that his experiments were made pa oaks.

[^57]:    * The following letter on the fubject of peat, though in oppofition to the abore minciple of its origin, will need no apology for its infertion; it appears to us fufficieafily important to claim the attention of the naturalift, and calculated to promote an inquiry that may be attended with many beneficial confequences:
    « I very much doubt your doctrine of peat. It appears to me to be a fubftance fai generis. Deciduous parts of trees and fhrubs are often found mixed with it. But its inflammable property, I conceive, does not depend on the mere adventitious colzections of decaycd vegctables; for although peat is found in phaces favourable to fuch culections, yet it is not found in cvery place where thofe collections have been made. Befies, in all the frat I have examined, there are cumerous fibres of a frietion, variouly ramified; in fome kinds they are extremely fine, in others as w.re as a packthread. When the reai is fint taken from the pit, the threads may be Fraced a confilarable dength, and, when wafhed, they have an appearance which has induced me to fuipect a vegetable organization. If they are a living vegetable, they secal to form the link between the vegetable and foffil kingdom. It feems moft proionie, if thofe fibres' are not vegctable fai gereris, they may be fibrous roots of a bed cof dame paiticular fecies of mofs, upon which there has been a large collection of matte:, which has buried them a certain depth under ground, where they are not fubFef to putcifaction. But thete feems to he an inflammable foffil in the compofition of peat, different from the carth commonly found in fimilar places. I am told, fome peat appears to be entircly a foffl, though 1 have never feen any fuch. It is as eafy to voncerive of fuck a fomi as of pit-coat. If the fofill contains the inflammable principle, it is not derived from deciucus vegetables. Have you never heard of its growing

[^58]:    * This is reckoned the beft grafs the Americans have, is a native, and fuppofed to be peculiar to the eafterm and middle States.
    $\dagger$ "The fowl meadows, on Neponfir river, between Debham and Stoughton, are "confidered by forme'a curiofity. A large trate of land is there cleared and fowed with. "s an excellent kind of grafs, without the affiftance of man.

    Dr. Fifzer.

[^59]:    * Befides thefe, there are many valuable graifes, which, at prefent, are nonefripts.

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[^60]:    * There is no drug fo liable to adulteration as this; and therefore as it is a medicize fo frequently in ufe among perfons of tender confitutions, effecialis yourg cbiliden, great care fbould be taken to have it genuine.
    Vab. III.

[^61]:    fruit this ipie may be effily yropagatel.

[^62]:    * Belkrap̧'s Hifory of New-Hamphirs

[^63]:    * In England we apprehend, the average wheat crop per fatute acre is at leaft tweuty buitels. The average of the Ine of Wight in 1793, was at leaft thirty-five bufhels I he average of the whole Staic of Pennfylvania cannot be reckoned at atove ten or welve. Maryland ine fame. This is owing to the negleat of manures, to the repeatel

[^64]:    working of the fame ground with crops of grain till it will bear no more, and to the very night lai our they beftow upon their tillage. It muft be confidered alfo, that much of the land is occupied by the ftumps of trees not rotted, and never grubbed up.

    But though in America lefs grain is produced per acre than in England, they get ritore per rann. Theie, land is plentiful and labour farce. In England it is the reverfe. Herce the arcurany of Britin, and carelefsnefs of American cultivation,

[^65]:    Voz. III.

[^66]:    - . In the latter end of the 5 car, 1793 at Philadelpbia, it had pifen to forty-feven and fonty cigh: fhillings.

[^67]:    the

[^68]:    * When we fay; " where the fame kind of wine is not to be had, be makes ufe of Portugal wines," this is mentioned with a view to the United States, not that the French make ure of fuch wines,' for they 'always have enough of their own of the fome kind,

[^69]:    * The degrees of heat are mentioned by Boerhaave, Hoffran and oihers.

[^70]:    VoL, III,

[^71]:    * It is proper to notice, that the lees of frong wines may be of advantage, and emmunicate fome frength to weak wines, that are racked off upon theme but it does not therefore follow, that all lees are beneficial to the wines that produce them; For, as we have already obferved, the lees, in the time of fermentation, being thrown up to the top of the veffel; there meet with the air, and being expofed to it for four or five days, contract a harfh and rancid nature, if they do not grow quite four; and

[^72]:    O The infuence of the weather in increatiug and leffening the difcharge of the fap from trees is very remarkable.

[^73]:    * Rhus
    * Sambucus Çnadenfis.

    4 Liriodendrum tolipifere:

[^74]:    * Baron La Hontan gives the following account of the fap of the fugar maple tree, when ufed as a drink, and of the manner of obtaining it: " The trec yields a fap which has a much pleafanter taffe than the beft lemonade or cherry water, and makes the wholefomet drink in the worla. This liquor is drawn by cutting the tree two inctes decp in the wood, the cut being made floping to the length of ten or twelve inchés, at the lower end of this gath a knife is thruft into the tree flopingly, foe that the water, runs along the cut or gafh; as thifough a gutter, and falls upon the knife which has fome veffels placed underneath to receive it. Some trees will yield five or fix bottles of this water in a day, and fome inhabitants of Canada might draw twenty bogfheads of it in one day, if they would thus cut and notch all the maple trees of their refpective plannations. The gath does no harm to the tree. Of this fap they make fugar and fyrup which is fo valuable, that there can be no better remedy for fortifying the ftomach; it is but few of the inhabitants that have the patience to make them, for as common things are llighted, fo there are fcarce any body but children that give themfelves the trouble of gafhing thefe trees.".

[^75]:    * The following receipt, publifhed by William Cooper, Efq. in the Albany Gazette, fully eftablifhes tuis fact :
    " Received, Cooper's Town, April 30th, 1790, of William Cooper, fixteen pounds, " for fix hundred and forty pounds of fugar, made with my owin hands, without any es affiftance, in lefs than four weeks, befides attending to the other bufinefs of my farm, $*$ as providing fire wood, taking eare of the cattle, \&cc. John Nicholls. Witnefs, "R. Smith."

    A fingle family, confifting of a man and his two fons, on the maple fugar lands between the Delaware and Sufquehannah, made one thoufand eight hundred pounds of maple fugak in one feafon.

[^76]:    * Dr. Knowles, a phyfician of worthy character in London, had occafion to recommend a diet to a patient, of which fugar corspofed a material part. His patient refured to fubmit to his prefcription, and gave as a reafon for it, that he had witmeffed fo much of the oppreffion and cruality which were exercifed upon the flaves, who mande the fugar, that he had made a vow never to tafte the produt of their mifery as long as he livec.

[^77]:    

[^78]:    * Appin leaves, for example, are a pleafing and falatary food for horfes
    $\$$ A kind of worms that devours their maw.

[^79]:    * They are conftructed by an iron grate-work, and panes of a fine clay fitcea therein, which are varuifhed according to tafte and ability. At Bethlehem, in Fenin. fylvania, an inferior kind of thefe are already in ufc.

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    3 U
    bie

[^80]:    * Memoirs of the American Academy, \&cc. printed in Bofton, $1.785^{\circ}$
    $t$ They drive the pain from one place to another until it breaks out in a blifter; this bark burns the fkin, as it were. Lofkiel. In New-England a pecies of pyrola called rheumatifm weed, and one of aletris named unicorn, are reputed very efficacious; the iatter in the chronic rheumatifm. Mem. A. Ac.

[^81]:    * Jerufalem oak.
    + The firft grows in the northern and midule States, the latter in thefe and the fouthern; it bears on a ftalk of two feet a yellow fruit like a lime, of a fweetifh tafte.
    $\ddagger$ Lofkiel Mem. of the American Academy ; the root is like a ball of fhining thread.
    § Floribus nutantibus, fructu oblongo, ariftis plumofis; powder of the root is ufed by the Canadians in fever and ague. Am. Ac.

[^82]:    - Schoeph defrrites it as hirfuta, radice amara: Bartram as " having flender purple fialks, rifing a frot high, with a fpike of fine yellow flowers; for near one-third part of the length of the plant," fays it is much extolled.
    $\dagger$ Bartram fpeaks of it principally as a "remedy in gricvous pains of the bowels; ${ }^{2 \pi}$ and bays, it has a flalk eighteen inches long, with a fine fike of white flowers fix inches in lenjth, blopning i.) June, and growing plentifully in the back parts of the ceuntrya

[^83]:    * Sce Gron. Virginia.
    + Serpent. Virg. Sarfaparilla, \&c. wants no mention ; feveral cinnot here find roonas $\pm$ Called Carclina ailfpice.
    §. They call it yaupain, and drink an infufion of the leaves in copious draughts, both as a dietetic and inebriating. It ofows near the fea in the focthers States, tea or trwalve feet high

[^84]:    * By the travels of Prof. Thunberg, we find great analogy between Japan and North-America : thus the perfimon grows there : the cones of the adder are in common ufe for black dye.
    $\dagger$ They grow in the fouthern States.
    - .
    $\ddagger$ An ofl îs preffed which becomes equally folid with tallow. TBunberg.
    \| The laf is in Mr. Bartram's garden from fifteen to twents feet high, and has wo: been affected with five fevere winters within twelve fears, though its native piace is Georgia. The flowers are large and fragrant, with Hily-like petala, and a taft of gold-coloured ftamina.

    If Bignosia catalpa flourifhes in and beyond Pennfylvania.

[^85]:    * Nefting in the joints of the falks, they bite it off before the grain is ripe-
    $\dagger$ They feem to extend far, as many hundred acres upon the Ohio are faid to be fpoliated by them; yet is their depredation local and varging, fo that different parts have their turn; they were in Pennfylvania eighty years ago, and with the fame qualities; as we fuid by old Swedifh records, which alfo add that the Indians fed upon them.
    $\ddagger$ Thunterg defribes thofe of Japan in the fame mamner, under the name of kampyris japonica.

[^86]:    * This was communicated to Dr. Nicholas Collin, rector of the Swedifh churches in Pennfylvania, by a refpectable miffionary, who had long been among the ludians, and had feen this animal, but would not have his name mentioned, as the matter. may appear incredible; it is three or four inches bigh, and after having crawled about the woods, is fixed in the ground, becoming a plant with a ftem through its mouth, asc. It is analogous to the vegetable fly of Dominica, that buries itreli in the ground, dies, and fprings up like a young coffee plant, for which it is often miftaken, until the rook ppon examination is found to be the head, feet, and body of the animal. See the Nan tural Hifary of. Daminica, by Thamas Alwwed, publifbed 1 jogr.
    + Some years ago one was exhibited in Philadelphia; it is a large animal with very high fore legs, a bort neck, \&ec.

[^87]:    * That of Mr. Peale in Philadelphing, commenced a fow gears ago, is by" his lavo alable care coming into repurtation both at hoate and abroad; and meerits the public pour irotuge:

