

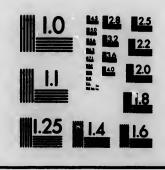
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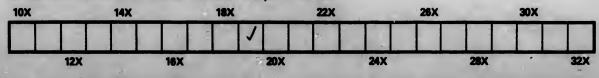
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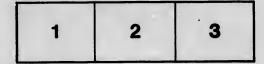
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TRAVELS

INTO

NORTH AMERICA;

CONTAINING

ITS NATURAL HISTORY, AND A circumstantial Account of its Plantations and Agriculture in general,

WITH THE

CIVIL, ECCLESIASTICAL AND COMMERCIAL STATE OF THE COUNTRY,

The MANNERS of the INHABITANTS, and feveral curious and IMPORTANT REMARKS ON various Subjects.

BY PETER KALM,

Profession of Occonomy in the University of Asbe in Swedish Finland, and Member of the Swedish Royal Academy of Sciences.

TRANSLATED INTO ENGLISH

Br JOHN REINOLD FORSTER, F.A.S.

Enriched with a Map, feveral Cuts for the Illustration of Natural History, and fome additional Notes.

VOL. III.

LONDON:

Printed for the EDITOR; And Sold by T. LOWNDES, in Fleet-freet. MDCCLXXI.

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E D I T O R.

I COULD have left this volume without preface, was it not for fome circumftances, which I am going to mention.

THE author of this account of North-America is a Swede, and therefore feems always to fhew a peculiar way of thinking in regard to the English in general, and in regard to the first proprietors and inhabitants of Philadelphia in particular. The French, the natural enemies of the English, have, for upwards of a century, been the allies of the Swedes, who therefore are in general more fond of them than of the English. The external politeness of the French in a 2 Canada

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Canada fully captivated our author, prejudiced him in their favour, and alienated his mind, though unjuftly, from the Englifb. I have therefore now and then, in remarks, been obliged to do the English justice, especially when I faw the author carried away either by prejudice, milinformation, or ignorance. He paffed almost all the winter, between 1748 and 1749, at Raccoon, and conversed there with his countrymen; when he came to Philadelphia he likewife was in the company of the Swedes fettled there : thefe, no doubt, furnished him with many partial and difingenuous accounts of the English, and gave his mind that unfavourable biafs which he fo often displays in prejudice of a nation, now at the head of the enlightened world, in regard to every religious, moral, and focial virtue. The author frequently feems to throw an illiberal reflection on the first proprietors of Penfylvania, and the quakers ; though they got that province not by force, but by a charter from the English government, to whom the Swedes gave it up by virtue of a public treaty. Prompted by fuch false infi-

infinuations of his countrymen, he likewife enters very minutely into the circumftances of the Swedes, and often omits, or mifreprefents, more important points, relative to the legiflator and father of Penfylvania, William Penn, who gave that province existence, laws, and reputation. The accounts in the first Volume, p. 32 and 33, 37, 42 and 46, feem to be founded on such misrepresentations. A philofopher should examine such accounts, hear both parties, and emancipate himself from narrowness of mind and prejudice.

THE author, however, often does justice to the excellent constitution of *Penfylvania*, as may be feen Vol. I. p. 58, 59. and likewise pag. 270, 271.

THE author speaks of fones attracting the moisture of the air; see Vol. I. p. 35; the is somewhat unphilosophically expressed. No stone attracts the moisture of the air, unless impregnated with faline particles; however, when the stones are colder than the atmosphere, they then condense the moisture of the air on their surface; the porous

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porous stones absorb it immediately, but those of a more solid texture, as marbles, &c. keep it on their surface till it evaporates.

PAGE 36. The author represents the white cedar-wood as almost entirely defireyed; though at present, above twenty years after his account, it is still used in Penfylvania, and quantities of it to be had, sufficient both for home consumption, and exportation to the West-India islands.

PAGE 48. The river Delaware is called one of the greatest rivers in the world; here, I suppose, the author forgot a great many its superiors.

For the tenor of the above remarks I am indebted to a worthy friend and bene-factor.

To the Errata of the first Volume must be referred the following : page 117, note, line 5, easible, read, feasible. P. 247, line 3 and 4, forty seven, read, seventy four. P. 298, line 13, Originals, read, Orignals. A

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A worp more I must add about the American Fauna and Flora, which I pro-The author, mised in my proposals. who, as far as I know, is still living. has not yet finished this work; these three volumes contain all that he has hitherto published relative to America; the journal of a whole year's travelling, and especially his expedition to the Iroquese, and fort Niagara, are still to come; which, as foon as they appear, if Providence spares my life and health, and if my fituation allows of it, I will translate into English; and there are fome hopes of obtaining the original from the author. He likewife often promises, in the course of this work, to publish a great Latin work, concerning the animals and plants of North-America. as far as he went through it; which would certainly make the small catalogue I could make, useles. It is likewise probable that the description of the animal kingdom. will fall to the share of an abler pen than mine.

I HERE take the opportunity of returning my humble thanks to my friends, who

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called world; great

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PREFACE. viii

who have generously promoted this publication; as without this public manner of acknowledging their favours, I would think myself guilty of ingratitude, which, in my opinion, is one of the most detestable vices.

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London, London, Febr. the 15th, 1771.

PETER

PETER KALM's

TRAVELS.

July the 1st. 1749.

A T day break we got up, and rowed a good while before we got to the place where we left the true road. The country which we paffed was the pooreft and most difagreeable imaginable. We faw nothing but a row of amazing high mountains covered with woods, fteep and dirty on their fides; fo that we found it difficult to get to a dry place; in order to land and boil our dinner. In many places the ground, which was very fmooth, was under water, and looked like the fides of our Swediffs moraffes which are intended to be drained; for this reafon the Dutch in Albany call these parts the Drowned Lands.* Some of

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VOL. III.

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the mountains run from S. S. W. to N. N. E. and when they come to the river, they form perpendicular fhores, and are full of ftones of different magnitudes. The river runs for the diffance of fome miles together from fouth to north.

THE wind blew north all day, and made it very hard work for us to get forwards, though we all rowed as hard as we could, for our provifions were eaten to-day at breakfaft. The river was frequently an *Englifk* mile and more broad, then it became narrow again, and fo on alternately; but upon the whole it kept a good breadth, and was furrounded on both fides by high mountains.

About fix o'clock in the evening, we arrived at a point of land, about twelve *Englifb* miles from Fort St. Frede ic. Behind this point the river is converted into a fpacious bay; and as the wind till kept blowing pretty ftrong from the north, it was impossible for us to get forwards, fince we were extremely weak. We were therefore obliged to pass the night here, in spite of the remonstrances of our hungry ftomachs.

IT is to be attributed to the peculiar grace of God towards us that we met the above mentioned Frenchmen on our journey, and

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Between the Forts Anne and St. Frederic. 3

and that they gave us leave to take one of their bark boats. It feldom happens once in three years, that the French go this road to Albany; for they commonly pafs over the lake St. Sacrement, or, as the English call it, lake George, which is the nearer and better road, and every body wondered why they took this troublefome one. If we had not got their large ftrong boat, and been obliged to keep that which we had made, we would in all probability have been very ill off; for to venture upon the great bay during the least wind with fo wretched a vefiel, would have been a great piece of temerity, and we should have been in danger of being starved if we had waited for a calm. For being without fire-arms, and these deserts having but few quadrupeds, we must have subsisted upon frogs and snakes, which, (especially the latter) abound in these parts. I can never think of this journey, without reverently acknowledging the peculiar care and providence of the merciful Creator. July the 2d. EARLY this morning we fet out on our journey again, it being moonfhine and calm, and we feared left the wind should change and become unfavourable to us if we stopped any longer. We all rowed as hard as poffible, and happily arrived about eight in the morning at Fort A .2 St.

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St. Frederic, which the English call Crown Point. Monfieur Lusignan, the governor, received us very politely. He was about fifty years old, well acquainted with polite literature, and had made feveral journies into this country, by which he had acquired an exact knowledge of feveral things relative to its ftate.

I was informed that during the whole of this fummer, a continual drought had been here, and that they had not had any rain fince laft foring. The exceffive heat had retarded the growth of plants; and on all dry hills the grafs, and a vaft number of plants, were quite dried up; the fmall trees, which grew near rocks, heated by the fun, had withered leaves, and the corn in the fields bore a very wretched afpect. The wheat had not yet eared, nor were the peafe in bloffoms. The ground was full of wide and deep cracks, in which the little fnakes retired and hid themfelves when purfued, as into an impregnable afylum.

THE country hereabout, it is faid, contains vaft foreits of firs of the white, black, and red kind, which had been formerly ftill more extensive. One of the chief reasons of their decrease are, the numerous fires which happen every year in the woods, through the careless of the Indians, who frequently

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whole nt had ad any e heat and on nber of l trees, he fun, in the ne peafe of wide finakes urfued,

d, con-, black, erly ftill afons of s which hrough ho frequently quently make great fires when they are hunting, which spread over the fir woods when every thing is dry.

GREAT efforts are made here for the advancement of Natural Hiftory, and there are few places in the world where fuch good regulations are made for this useful purpose, all which is chiefly owing to the care and zeal of a fingle perfon. From hence it appears, how well a useful science is received and fet off, when the leading men of a country are its patrons. The governor of the fort, was pleafed to fhew me a long paper, which the then governor-general of Canada, the Marquis la Galiffonniere had fent him. It was the fame marquis, who fome years after, as a French admiral, engaged the English fleet under admiral Byng, the confequence of which was the conquest of Minorca. In this writing, a number of trees and plants are mentioned, which grow in North-America, and deferve to be collected and cultivated on account of their uleful qualities. Some of them are described, among which, is the Polygala Senega, or Rattle Snake-root; and with feveral of them the places where they grow are mentioned. It is further requested that all kinds of feeds and roots be gathered here; and, to affift fuch an undertaking, a method of preferv-A 3 ing

ing the gathered feeds and roots, is prefcribed, fo that they may grow, and be fent to Paris. Specimens of all kinds of minerals are required; and all the places in the French fettlements are mentioned, where any ufeful or remarkable ftone, earth, or ore has been found. There is likewife a manner of making observations and collections of curiofities in the animal kingdom. To these requests it is added, to enquire and get information, in every polfible manner, to what purpose and in what manner the Indians employ certain plants and other productions of nature, as medicines, or in any other cafe. This useful paper was drawn up by order of the marquis la Calissonniere, by Mr. Gaultier, the royal physician at Quebec, and afterwards corrected and improved by the marquis's own hand. He had several copies made of it, which he fent to all the officers in the forts, and likewife to other learned men who travelled in the country. At the end of the writing is an injunction to the officers, to let the governor-general know, which of the common foldiers had used the greatest diligence in the discovery and collection of plants and other natural curiofities, that hemight be able to promote them, when an opportunity occurred, to places adapted to

to their respective capacities, or to reward them in any other manner. I found that the people of distinction, in general here, had a much greater taste for natural history and other parts of literature, than in the *Engliscond Constant* contempt to for the found of the tune together, and where the found of the found of the held in universal contempt.* It was still A 4 complained

* It feems Mr. Kalm has forgotten his own affertions in the first volume. Dr. Colden, Dr. Franklin, and Mr. Bartram, have been the great promoters and investigators of nature in this country; and how would the inhabitants of Old England have gotten the fine collections of North-American trees, fhrubs, and plants, which grow at prefent almost in every garden, and are as if it were naturalized in Old England, had they not been affifted by their friends, and by the curious in North-America. One need only call an eye on Dr. Linnæus's new edition of his Systema, and the repeated mention of Dr. Garden, in order to be convinced that the English in America have contributed a greater share towards promoting natural history, than any nation under heaven, and certainly more than the French, though their learned men are often handsomely pensioned by their great Monarque : on the other hand the English fludy that branch of knowledge, from the fole motive of its utility, and the pleafure it affords to a thinking being, without any of those mercenary views, held forth to the learned of other countries. And as to the other parts of literature, the English in America are undoubtedly superior to the French in Canada, witness the many useful institutions, colleges, and schools founded in the English colonies in North-America, and fo many very confiderable libraries now erecting in this country, which contain fuch a choice of uleful and curious books, as were very little known in Canada, before it fell into the hands of the English: not to mention the productions of original genius written by Americans boin. F.

pred be ids of ces in oned, stone, ere is ations nimal ed, to y polwhat plants mediuleful of the aultier, afterby the copies officers learned At the to the know, fed the collecofities, , when dapted to

complained of here, that those who studied natural history, did not sufficiently enquire into the medicinal use of the plants of *Canada*.

THE French, who are born in France, are faid to enjoy a better health in Canada than in their native country, and to attain to a greater age, than the French born in Canada. I was likewife affured that the European Frenchmen can do more work, and perform more journies in winter, without prejudice to their health, than those born in this country. The intermitting fever which attacks the Europeans on their arrival in Penfylvania, and which as it were makes the climate familiar to them, * is not known here, and the people are as well after their arrival as before. The English have frequently observed, that those who are born in America of European parents, can never bear sea-voyages, and go to the different parts of South America, as well as those born in Europe. The French born in Canada have the fame conflictutions; and when any of them go to the West-India islands, such as Martinique, Domingo, &c. and make fome flay there, they commonly fall fick and die foon after: those

* See Vol. I. p. 364.

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France, Canada attain orn in bat the work. winter, , than interropeans l which iliar to people before. ed, that uropean and go erica, as French tutions; e West-Domingo, y com-: those who fall ill there feldom recover, unlefs they are brought back to *Canada*. On the contrary, those who go from *France* to those islands can more easily bear the climate, and attain a great age there, which I heard confirmed in many parts of *Canada*.

July the 5th. WHILST we were at dinner, we leveral times heard a repeated difagreeable outcry, at some distance from the fort, in the river Woodcreek: Mr. Lufignan, the governor, told us this cry was no good omen, because he could conclude from it that the Indians, whom we escaped near fort Anne, had completed their defign of revenging the death of one of their brethren upon the English, and that their shouts shewed that they had killed an Englishman. As foon as I came to the window, I faw their boat, with a long pole at one end, on the extremity of which they had put a bloody skull. As soon as they were landed, we heard that they, being fix in number, had continued their journey (from the place where we had marks of their paffing the night), till they had got within the English boundaries, where they found a man and his fon employed in mowing the corn. They crept on towards this man, and shot him dead upon the fpot. This happened near the very village, where the English, two years before,

who

before, killed the brother of one of these Indians, who were then gone out to attack According to their cuftom they cut them. off the skull of the dead man, and took it with them, together with his clothes and his fon, who was about nine years old. As foon as they came within a mile of fort St. Frederic, they put the skull on a pole, in the fore part of the boat, and shouted, as a fign of their fuccess. They were dreffed in shirts, as usual, but some of them had put on the dead man's clothes; one his coat, the other his breeches, another his hat, &c. Their faces were painted with vermillion, with which their fhirts were marked across the shoulders. Most of them had great rings in their ears, which feemed to be a great inconvenience to them, as they were obliged to hold them when they leaped, or did any thing which required a violent motion. Some of them had girdles of the skins of Rattle-snakes, with the rattles on them; the fon of the murdered man had nothing but his fhirt, breeches and cap, and the Indians had marked his shoulders with red. When they got on fhore, they took hold of the pole on which the skull was put, and danced and fung at the fame time. Their view in taking the boy, was to carry him to their

their habitations, to educate him instead of their dead brother, and afterwards to marry him to one of their relations. Notwithstanding they had perpetrated this act of violence in time of peace, contrary to the command of the governor in Montreal, and to the advice of the governor of St. Frederic, yet the latter could not at . prefent deny them provisions, and whatever they wanted for their journey, because he did not think it adviseable to exasperate them; but when they came to Montreal, the governor called them to account for this action, and took the boy from them, whom he afterwards fent to his relations: Mr. Lusignan asked them, what they would have done to me and my companions, if they had met us in the defert? They replied, that as it was their chief intention to take their revenge on the Englishmen in the village where their brother was killed, they would have let us alone; but it much depended on the humour they were in, just at the time when we first came to their fight. However, the commander and all the Frenchmen faid, that what had happened to me was infinitely fafer and better.

Some years ago a skeleton of an amazing great animal had been found in that part of *Canada*

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Canada, where the Illinois live. One of the lieutenants in the fort affured me, that he had feen it. The Indians, who were there, had found it in a fwamp. They were furprifed at the fight of it, and when they were asked, what they thought it was? They answered that it must be the skeleton of the chief or father of all the beavers. It was of a prodigious bulk, and had thick white tceth, about ten inches long, It was looked upon as the skeleton of an elephant. The lieutenant affured me that the figure of the whole fnout was yet to be feen, though it was half mouldered. He added, that he had not observed, that any of the bones were taken away, but thought the fkeleton lay quite perfect there. I have heard people talk of this monftrous skeleton in feveral other parts of Canada *.

BEARS are plentiful hereabouts, and they kept a young one, about three months old, at the fort. He had perfectly the fame fhape, and qualities, as our common bears in *Europe*, except the ears, which feemed to be longer in proportion, and the hairs which were ftiffer; his colour was deep brown, y d

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* THE country of the *Illinois* is on the river Obio, near the place where the *Engl* b have found fome bones, fuppofed to belong to elephants. See Vol. I. p. 135. in the note.

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Dones, fup-135. in the brown, almost black. He played and wresselvery day with one of the dogs. A vast number of bear-skins are annually exported to France from Canada. The Indians prepare an oil from bear's grease, with which in summer they daub their face, hands, and all naked parts of their body, to secure them from the bite of the gnats. With this oil they likewise frequently smear the body, when they are excessively cold, tired with labour, hurt, and in other cases. They believe it fostens the skin, and makes the body pliant, and is very ferviceable to old age.

THE common Dandelion (Leontodon Taraxacum Linn.) grows in abundance on the paftures and roads between the fields, and was now in flower. In fpring when the young leaves begin to come up, the French dig up the plants, take their roots *, wash them, cut them, and prepare them as a common fallad; but they have a bitter tafte. It is not usual here to make use of the leaves for eating.

July the 6th. THE foldiers, which had been paid off after the war, had built houfes round the fort, on the grounds allotted

• In France the young blanched leaves, which fcarce peep out of molehills, and have yet a yellow colour, are univerfally eaten as a fallad, under the name of *Pifenlit*. F.

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to them; but most of these habitations were no more than wretched cottages, no better than those in the most wreched places of Sweden; with that difference, however, that their inhabitants here were rarely oppreffed by hunger, and could eat good and pure wheat bread. The huts which they had erected confifted of boards, flanding perpendicularly close to each other. The roofs were of wood too. The crevices were stopped up with clay, to keep the room warm. The floor was commonly clay, or a black limeftone, which is common here. The hearth was built of the fame ftone, except the place were the fire was to ly, which was made of grey fandstones, which for the greatest part confist of particles of quartz. In some hearths, the stones quite close to the fire-place were limeftones; however. I was affured that there was no danger of fire, especially if the stones, which were most exposed to the heat, were of a large fize. They had no glass in their windows.

July the 8th. THE Galium tinctorium is called *Tifavojaune rouge* by the *French* throughout all *Canada*, and abounds in the woods round this place, growing in a moift but fine foil. The roots of this plant are employed by the Indians in dying the quills of the *American* porcupines red, which they

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ns were o better laces of ver, that opprefood and ich they ftanding The •• ces were he room clay, or on here. one, exs to ly, s, which rticles of nes quite es; howo danger ich were f a large windows. storium is French ds in the n a moift plant are the quills hich they put put into feveral pieces of their work; and air, fun, or water feldom change this colour. The French women in Canada fometimes dye their clothes red with these roots, which are but small, like those of Galium luteum, or yellow bedstraw.

THE horfes are left out of doors during the winter, and find their food in the woods, living upon nothing but dry plants, which are very abundant; however they do not fall off by this food, but look very fine and plump in fpring.

July the 9th. THE skeleton of a whale was found some French miles from Quebec, and one French mile from the river St. Laurence, in a place where no flowing water comes to at present. This skeleton has been of a very considerable size, and the governor of the fort said, he had spoke with several people who had seen it.

July the 10th. THE boats which are here made use of, are of three kinds. 1. Bark-boats, made of the bark of trees, and of ribs of wood. 2. Canoes, confisting of a fingle piece of wood, hollowed out, which I have already described before *. They are here made of the white fir, and of different fizes. They are not brought

* See Vel. II.

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forward by rowing, but by paddling; by which method not half the ftrength can be applied; which is made use of in rowing; and a fingle man might, I think, row as fast as two of them could paddle. 3. The third kind of boats are Bateaux. They are always made very large here, and employed for large cargoes. They are flat bottomed, and the bottom is made of the red, but more commonly of the white oak, which refifts better, when it runs against a stone, than other wood. The fides are made of the white fir, because oak would inake the Bateau too heavy. They make plenty of tar and pitch here.

THE foldiery enjoy fuch advantages here, as they are not allowed in every part of the world. Those who formed the garrifon of this place, had a very plentiful allowance from their government. They get every day a pound and a half of wheat bread, which is almost more than they can eat. They likewife get peafe, bacon, and falt meat in plenty. Sometimes they kill oxen and other cattle, the flesh of which is diftributed among the foldiers. All the officers kept cows, at the expence of the king, -and the milk they gave was more than fufficient to fupply them. The foldiers had each a small garden without the fort, which they

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ng; by can be cowing; w as faft 3. The They and emare flat e of the hite oak, againft a fides are ak would hey make

iges here, y part of the garentiful al-They get eat bread, can eat. and falt kill oxen ich is difthe offithe king, than fufldiers had brt, which they they were allowed, to attend, and plant in it whatever they liked, and fome of them had built fummer-houfes in them, and planted all kind of pot-herbs. The governor told me, that it was a general cuftom to allow the foldiers a fpot of ground for kitchen-gardens, at fuch of the French forts hereabouts as were not fituated near great towns, from whence they could be fup-In time of peace the plied with greens. foldiers have very little trouble with being upon guard at the fort; and as the lake close by is full of fish, and the woods abound with birds and animals, those amongst them who choose to be diligent, may live extremely well, and very grand in regard to food. Each foldier got a new coat every two years; but annually, a waistcoat, cap, hat, breeches, cravat, two pair of flockings, two pair of fhoes, and as much wood as he had occafion for in winter. They likewife got five fols * a piece every day; which is augmented to thirty fols when they have any particular labour for the king. When this is confidered, it is not furpriling to find the men are very fresh, well fed, strong and lively here. When a foldier falls fick he is brought to the hospital, where the king VOL. III. в pro-

* A fol in France is about the value of one half penny flerling.

provides him with a bed, food, medicines, and people to take care of, and ferve him. When some of them asked leave to be abfent for a day or two, to go abroad, it was generally granted them, if circumstances would permit, and they enjoyed as usual their thare of provisions and money, but were obliged to get fome of their comrades to mount the guard for them as often as it came to their turns, for which they gave The governor and them an equivalent. officers were duly honoured by the foldiers; however, the foldiers and officers often spoke together as comrades, without any ceremonies, and with a very becoming freedom. The foldiers who are fent hither from France, commonly ferve till they are forty or fifty years old, after which they are difinified and allowed to fettle upon, and cultivate a piece of ground. But if they have agreed on their arrival to ferve no longer than a certain number of years, they are difmiffed at the expiration of their Those who are born here, comterm. monly agree to ferve the crown during fix, eight, or ten years; after which they are difinified, and fet up for farmers in the country. ' The king presents each dismissed foldier with a piece of land, being commonly

icines, e him. be abit was ftances. s usual y, but mrades n as it ey gave or and he folcers ofwithout coming ent hitill they ich they e upon, But if to ferve f years, of their e, comring fix, they are in the lismified ng commonly.

monly 40 arpens * long and but three broad, if the foil be of equal goodness throughout; but they get fomewhat more, if it be a worse ground +. As soon as a foldier settles to cultivate fuch a piece of land, he is at first affisted by the king, who supplies himfelf, his wife and children, with provifions, during the three or four first years. The king likewife gives him a cow, and the most necessary instruments for agriculture. Some foldiers are fent to affift him in building a house, for which the king pays them. These are great helps to a poor man, who begins to keep house, and it feems that in a country where the troops are fo highly diftinguished by the royal favour, the king cannot be at a loss for foldiers. For the better cultivation and population of Canada, a plan has been proposed some years ago, for fending 300 men over from France every year, by which means the old

* An Arpent in France contains 100 French perches, and each of thole 22 French feet; then the French foot being to the English as 1440 to 1352, an arpent is about 2346 English feet and 8 inches long. See Ordonnances de Louis XIV. fur le fait des Eaux & Forêts. Paris, 1687. p. 112. F. † Mr. Kalm fays, in his original, that the length of an arpent was fo determined, that they reckoned 84 of them in a French lieue or league; but as this does by no means agree with the statute arpent of France, which by order of king Lewis XIV, was fixed at 2200 feet, Paris measure, (see the preceding note) we thought proper to leave it out of the text. F. old foldiers may always be difmiffed, marry, and fettle in the country. The land which was allotted to the foldiers about this place, was very good, confifting throughout of a deep mould, mixed with clay.

July the 11th. THE harrows which they make use of here are made entirely of wood, and of a triangular form. The ploughs seemed to be less convenient. The wheels upon which the plough-beam is placed, are as thick as the wheels of a cart, and all the wood-work is so clumfily made that it requires a horse to draw the plough along a smooth field.

ROCK-STONES of different forts lay fcattered on the fields. Some were from three to five feet high, and about three feet broad. They were pretty much alike in regard to the kind of the stone, however, I observed three different species in them.

1. SOME confifted of a quartz, whole colour refembled fugar candy, and which was mixed with a black fmall grained glimmer, a black horn-ftone, and a few minute grains of a brown fpar. The quartz was most abundant in the mixture; the glimmer was likewife in great quantity, but the fpar was inconfiderable. The feveral kinds of ftones were well mixed, and though the eye could diftinguish them, yet no inftrument

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ay fcatm three ree feet alike in wever, I hem. , whose which ed glimminute rtz was e glimbût the al kinds ugh the inftrument ment could separate them. The stone was very hard and compact, and the grains of quartz looked very fine.

2. Some pieces confifted of grey particles of quartz, black glimmer, and hornftone, together with a few particles of fpar, which made a very close, hard, and compact mixture, only differing from the former in colour.

3. A few of the ftones confifted of a mixture of white quartz and black glimmer, to which fome red grains of quartz were added. The fpar (quartz) was moft predominant in this mixture, and the glimmer appeared in large flakes. This ftone was not fo well mixed as the former, and was by far not fo hard and fo compact, being eafily pounded.

THE mountains on which fort St. Frederic is built, as likewife those on which the above kinds of stone are found, confisted generally of a deep black lime-stone, lying in lamellæ as slates do, and it might be called a kind of slates, which can be turned into quickling by fire*. This limestone is quite black in the infide, and, when broken, appears to be of an exceed-

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* Marmor schistofum, Linn. Syft. III. p. 40. Marmor unicolor nigrum. Wall. Min. pag. 61. n. 2. Lime-flates, schistus zalcareu, Forft. Introd. to Min. p. 9. F.

ing fine texture. There are fome grains of a dark fpar fcattered in it, which, together with fome other inequalities, form veins in it. The ftrata which ly uppermost in the mountains confist of a grey limeftone, which is feemingly no more than a variety of the preceding. The black limeftone is constantly found filled with petrefactions of all kinds, and chiefly the following:

Pectinites, or petrefied Oftreæ Pectines. These petrefied shells were more abundant than any others that have been found here, and fometimes whole strata are met with, confifting merely of a quantity of shells of this fort, grown together. They are generally fmall, never exceeding an inch and a half in length. They are found in two different states of petrefaction; one shews always the impressions of the elevated and hollow furfaces of the shells, without any vestige of the shells themselves. In the other appears the real shell sticking in the stone, and by its light colour is eafily diftinguishable from the stone. Both these kinds are plentiful in the ftone; however, the impressions are more in number than the real shells. Some of the shells are very elevated, especially in the middle, where they form as it were a hump; others again are

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ectines. undant d here, t with, hells of e gene-1 and a in two e shews ted and out any In the in the fily difth these owever, ber than are very where rs again are are depressed in the middle; but in most of them the outward furface is remarkably elevated. The furrows always run longitudinally, or from the top, diverging to the margin.

Petrefied Cornua Ammonis. These are likewise frequently found, but not equal to the former in number: like the pettinitæ, they are found really petrefied, and in impressions; amongst them were some petrefied some of these Cornua Ammonis were remarkably big, and I do not remember seeing their equals, for they measured above two seet in diameter.

DIFFERENT kinds of corals could be plainly feen in, and feparated from, the stone in which they lay. Some were white and ramofe, or *Lithophytes*; others were starry corals, or *Madrepores*; the latter were rather fcarce.

I MUST give the name of Stone-balls to a kind of ftones foreign to me, which are found in great plenty in fome of the rockftones. They were globular, one half of them projecting generally above the rock, and the other remaining in it. They confift of nearly parallel fibres, which arife from the bottom as from a center, and fpread over the furface of the ball and have a grey colour. The outfide of the balls is fmooth,

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but has a number of fmall pores, which externally appear to be covered with a pale grey cruft. They are from an inch to an inch and a half in diameter.

AMONGST fome other kinds of fand, which are found on the fhores of lake *Champlain*, two were very peculiar, and commonly lay in the fame place; the one was black, and the other reddifh brown, or granite coloured.

THE black fand always lies uppermost, confifts of very fine grains, which, when examined by a microscope, appear to have a dark blue colour, like that of a fmooth iron, not attacked by ruft. Some grains are roundish, but most of them angular, with thining furfaces; and they fparkle when the fun fhines. All the grains of this fand without exception are attracted by the magnet. Amongst these black or deep blue grains, they meet with a few grains of a red or garnet coloured fand, which is the fame with the red fand which lies immediately under it, and which I shall now describe. This red or garnet coloured fand is very fine, but not fo fine as the black fand. Its grains not only participate of the colour of garnets, but they are really nothing but pounded garnets. Some grains are round, others angulated; all fhine and are

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are femipellucid; but the magnet has no effect on them, and they do not fparkle fo much in funshine. This red fand is feldom found very pure, it being commonly mixed with a white fand, confifting of particles of The black and red fand is not quartz. found in every part of the shore, but only in a few places, in the order before mentioned. The uppermost or black fand lay about a quarter of an inch deep; when it was carefully taken off, the fand under it became of a deeper red the deeper it lay, and its depth was commonly greater than that of the former. When this was carefully taken away, the white fand of quartz appeared mixed very much at top with the red fand, but growing purer the deeper it lay. This white fand was above four inches deep, had round grains, which made it entirely like a pearl fand. Below this was a pale grey angulated quartz fand. In fome places the garnet coloured fand lay uppermoft, and this grey angulated one immediately under it, without a grain of either the black or the white fand.

I CANNOT determine the origin of the black or fteel-coloured fand, for it was not known here whether there were iron mines in the neighbourhood or not. But I am rather inclined to believe they may be found in

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permost, h, when to have a fmooth ne grains angular, y fparkle grains of attracted black or h a few hd, which which lies h I fhall coloured ne as the articipate are really me grains shine and are

in these parts, as they are common in different parts of Canada, and as this fand is found on the fhores of almost all the lakes, and rivers in Canada, though not in equal The red or garnet coloured quantities. fand has its origin hereabouts; for though the rocks near fort St. Frederic contained no garnets, yet there are stones of different fizes on the shores, quite different from the stones which form those rocks; these stones are very full of grains of garnets, and when pounded there is no perceptible difference between them and the red fand. In the more northerly parts of Carada, or below Quebec, the mountains themfelves contain a great number of garnets. The garnet coloured fand is very common on the shores of the river St. Laurence. I shall leave out feveral observations which I made upon the minerals hereabouts, as uninterefting to most of my readers.

THE Apocynum androsamifolium grows in abundance on hills covered with trees, and is in full flower about this time; the French call it Herbe à la puce. When the stalk is cut or tore, a white milky juice comes out. The French attribute the fame qualities to this plant, which the poisontree, or Rhus vernix, has in the English colonics; that its poison is noxious to some per-

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n in difs fand is he lakes, in equal coloured though onvained different ent from s; thefe nets, and tible diffand. In la, or belves con-The garn on the I fhall ch I made s uninte-

m grows ith trees, ime; the Vhen the ilky juice the fame e poifonis coloto fome per-

perfons, and harmlefs to others. The milky juice, when spread upon the hands and body, has no had effect on some persons ; whereas others cannot come near it without being bliftered. I faw a foldier whole hands were bliftered all over, merely by plucking the plant, in order to shew it me; and it is faid its exhalations affect fome people, when they come within reach of them. It is generally allowed here, that the lactescent juice of this plant, when fpread on any part of the human body not only fwells the part, but frequently corrodes the fkin; at least there are few examples of perfons on whom it had no effect. As for my part, it has never hurt me, though in prefence of feveral people I touched the plant, and rubbed my hands with the juice till they were white all over; and I have often rubbed the plant in my hands till it was quite crushed, without feeling the least inconvenience, or change on my hand. The cattle never touch this plant.

July the 12th. BURDOCK, or Arctium Lappa, grows in feveral places about the fort; and the governor told me, that its tender fhoots are eaten in fpring as raddifhes, after the exterior peel is taken off.

THE Sifon Canadense abounds in the woods

woods of all North-America. The French call it cerfeuil fauvage, and make use of it in foring, in green soups, like chervil. It is universally praised here as a wholesome, antifcorbutic plant, and as one of the best which can be had here in foring.

THE Asclepias Syriaca, or, as the French call it, le Cotonier, grows abundant in the country, on the fides of hills which ly near rivers and other fituations, as well in a dry and open place in the woods, as in a rich, loofe foil. When the falk is cut or broken it emits a lactescent juice, and for this reason the plant is reckoned in some degree poisonous. The French in Canada nevertheless use its tender shoots in fpring, preparing them like afparagus; and the use of them is not attended with any bad confequences, as the flender shoots have not yet had time to fuck up any thing poifonous. Its flowers are very odoriferous, and, when in feason, they fill the woods with their fragrant exhalations, and make it agreeable to travel in them; efpecially in the evening. The French in Canada make a fugar of the flowers, which for that purpose are gathered in the morning, when they are covered all over with dew. This dew is expressed, and by boiling yields a very good brown, palatable fugar,

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e French nt in the 6 which , as well voods, as e stalk is ent juice, reckoned e French der shoots sparagus; nded with der shoots k up any very odoey fill the tions, and em; espech in Cars, which the mornover with d by boilpalatable fugar. fugar. The pods of this plant when ripe contain a kind of wool, which enclofes the feed, and refembles cotton, from whence the plant has got its French name. The poor collect it, and fill their beds, especially their children's, with it instead of feathers. This plant flowers in Canada at the end of June and beginning of July, and the feeds are ripe in the middle of September. The horses never cat of this plant.

July the 16th. THIS morning I croffed lake Champlain to the high mountain on its western fide, in order to examine the plants and other curiofities there. From the top of the rocks, at a little diftance from fort St. Frederic, a row of very high mountains appear on the western shore of lake Champlain, extending from fouth to north; and on the eastern fide of this lake is another chain of high mountains, running in the fame direction. Those on the eastern fide are not close to the lake, being about ten or twelve miles from it; and the country between it and them is low and flat, and covered with woods, which likewife clothe the mountains, except in fuch places, as the fires, which destroy the forests here, have reached them and burnt them down. These mountains have generally steep sides, but fometimes they are found gradually floping.

floping. We croffed the lake in a canoe. which could only contain three perfons, · and as foon as we landed we 'walked from the shore to the top of the mountains. Their fides are very steep, and covered with a mould, and fome great rock-ftones lay on them. All the mountains are covered with trees; but in some places the forests have been destroyed by fire. After a great deal of trouble we reached the top of one of the mountains, which was covered with a dufty mould. It was none of the highest; and fome of those which were at a greater distance were much higher, but we had no time to go to them; for the wind encreased, and our boat was but a little one. We found no curious plants, or any thing remarkable here.

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WHEN we returned to the fhore we found the wind rifen to fuch a height, that we did not venture to crofs the lake in our boat, and for that reafon I left the fellow to bring it back, as foon as the wind fubfided, and walked round the bay, which was a walk of about feven English miles. I was followed by my fervant, and for want of a road, we kept clofe to the fhore where we paffed over mountains and fharp ftones; through thick forefts and deep marfhes, all which were known to be inhabited by num-

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a canoe. perfons; ied from ountains. ered with es lay on ered with efts have great deal f one of d with a higheft; a greater t we had wind enlittle one. any thing

thore we eight, that ake in our the fellow wind fubay, which this miles. d for want hore where arp ftones; harfhes, all habited by numnumberless rattle-snakes, of which we happily faw none at all. The fhore is very full of ftones in fome places, and covered with large angulated rock-stones, which are fometimes roundish, and their edges as it were worn off. Now and then we met with a finall fandy spot, covered with grey, but chiefly with the fine red fand which I have before mentioned; and the black iron fand likewife occurred fometimes. We found stones of a red glimmer of a fine texture, on the mountains. Sometimes these mountains with the trees on them flood perpendicular with the waterfide, but in some places the shore was marshy.

I sAW a number of petrefied Cornua Ammonis in one place, near the fhore, among a number of ftones and rocks. The rocks confift of a grey limeftone, which is a variety of the black one, and lies in ftrata, as that does. Some of them contain a number of petrefactions, with and without fhells; and in one place we found prodigious large Cornua Ammonis, about twenty inches in breadth. In fome places the water had wore off the ftone, but could not have the fame effect on the petrefactions, which lay clevated above, and in a manner glued on the ftones.

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THE mountains near the fhore are amazingly high and large, confifting of a compact grey rock-ftone, which does not ly in ftrata as the lime-ftone, and the chief of whole confituent parts are a grey quartz, and a dark glimmer. This rock-ftone reached down to the water, in places where the mountains ftood close to the fhore; but where they were at fome diftance from it, they were fupplied by ftrata of grey and black lime-ftone, which reached to the water fide, and which I never have feen covered with the grey rocks.

THE Zizania aquatica grows in mud, and in the most rapid parts of brooks, and is in full bloom about this time.

July the 17th. THE diffempers which rage among the Indians are rheumatifms and pleurifies, which arife from their being obliged frequently to ly in moift parts of the woods at night; from the fudden changes of heat and cold, to which the air is exposed here; and from their being frequently loaded with too great a quantity of ftrong liquor, in which case they commonly ly down naked in the open air, without any regard to the season, or the weather. These diffempers, especially the pleurifies, are likewise very common among the French here; and the governor told me he

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f a comnot ly in chief of ey quartz, ne reachwhere the hore; but from it, of grey hed to the have feen

s in mud, cocks, and

bers which *natifms* and heir being ft parts of he fudden ich the air being frea quantity they comopen air, on, or the becially the non among or told me he he had once had a very violent fit of the latter, and that Dr. Sarrafin had cured him in the following manner, which has been found to fucceed beft here. He gave him fudorifics, which were to operate between eight and ten hours; he was then bled, and the fudorifics repeated; he was bled again, and that effectually cured him.

DR. Sarrafin was the royal phylician at Quebec, and a correspondent of the royal academy of sciences at Paris. He was posfeffed of great knowledge in the practice of phylic, anatomy, and other sciences, and very agreeable in his behaviour. He died at Quebec, of a malignant fever, which had been brought to that place by a schip, and with which he was infected at an hospital, where he visited the science. He left a son, who likewise studied physic, and went to France to make himself more perfect in the practical part of is, but he died there.

The intermitting fevers fometimes come amongst the people here, and the venereal difease is common here. The Indians are likewise infected with it; and many of them have had it, and fome still have it; but they likewise are perfectly possessed of the art of curing it. There are examples of Frenchmen and Indians, infected all over the body with this difease, who have been ra-Vol. III. C dically

dically and perfectly cured by the Indians, within five or fix months. The French have not been able to find this.remedyout; though they know that the Indians employ no mercury, but that their chief remedies are roots, which are unknown to the French. I have afterwards heard what these plants were, and given an account of them at large to the royal Swedifb academy of fciences *.

WE are very well acquainted in Scoeden with the pain caufed by the Tania, or a kind of worms. They are lefs abundant in the Britif North-American colonies; but in Canada they are very frequent. Some of these worms, which have been evacuated by a perfon, have been feveral yards long. It is not known, whether the Indians are afflicted with them, or not. No particular remedies against them are known here, and no one can give an account from whence they come, though the eating of fome fruits contributes, as is conjectured, to create them.

July the 19th. FORT St. Frederic is a fortification, on the fouthern extremity of Jake Champlain, fituated on a neck of land, between that lake and the river, which arifes and a sector of a sector of the from

I I she had a set of the terms & the * SEE the Memoirs of that Academy, for the year 1750. page 284. THE Stillingia Sylvatica is probably one of these roots. F.

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e Indians, ench have t; though v no merare roots, . I have nts were, large to nces *. in Store Tania. els abunican colofrequent. ave been en feveral nether the r not. No re known ount from eating of njectured,

deric is a remity of k of land, hich arifes from

he year 1750.

from the union of the river Woodcreek, and lake St. Sacrement. The breadth of this river is here about a good musket shot. The English call this fortress Crownpoint, but its French name is derived from the French fecretary of state, Frederic Maurepas, in whole hands the direction and management of the French court of admiralty was, at the time of the crection of this fort : for it is to be observed, that the government of Canada is subject to the court of admiralty in France, and the governor-general is always chosen out of that court. As most of the places in Canada bear the names of faints, cuftom has made it neceffary to prefix the word Saint to the name of the fortress. The fort is built on a rock, confifting of black lime-flates, as afore faid ; it is nearly quadrangular, has high and thick walls, made of the fame lime-ftone. of which there is a quarry about half a mile from the fort. On the eastern part of the fort, is a high tower, which is proof againft bombshells; provided with very thick and substantial walls, and well stored with cannon, from the bottom almost to the very top; and the governor lives in the tower. In the terre-plein of the fort is a well built little church, and houses of stone for the officers and foldiers. There are tharp rocks C 2 - 0 3 on

on all fides towards the land, beyond a cannon-fhot from the fort, but among them are fome which are as high as the walls of the fort, and very near them.

THE soil about fort St. Frederic is faid to be very fertile, on both fides of the river; and before the laft war a great many French families, especially old foldiers, have settled there; but the king obliged them to go into Canada, or to fettle close to the fort, and to ly in it at night. A great number of them returned at this time, and it was thought that about forty or fifty families would go to fettle here this autumn. Within one or two musket-shots to the east of the fort, is a wind-mill, built of ftone with very thick walls, and most of the flour which is wanted to supply the fort is ground here. This wind-mill is fo contrived, as to ferve the purpole of a redoubt, and at the top of it are five or fix fmall pieces of can-During the last war, there was a non. number of foldiers quartered in this mill, because they could from thence look a great way up the river, and observe whether the English boats approached; which could not be done from the fort itfelf, and which was a matter of great confequence, as the English might (if this guard had not been placed here) have gone in their little boats

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boats close under the western shore of the river, and then the hills would have prevented their being feen from the fort. Therefore the fort ought to have been built on the fpot where the mill stands, and all those who come to see it, are immediately fruck with the abfurdity of its fituation. If it had been erected in the place of the mill, it would have commanded the river, and prevented the approach of the enemy; and a fmall ditch cut through the loofe limeftone, from the river (which comes out of the lake St. Sacrement) to lake Champlain, would have furrounded the fort with flowing water, because it would have been fituated on the extremity of the neck of land. In that cafe the fort would always have been fufficiently supplied with fresh water, and at a diftance from the high rocks, which furround it in its prefent fituation. We prepared to-day to leave this place, having waited during fome days for the arrival of the yacht, which plies conftantly all fummer between the forts St. John * and St. Frederic: during our ftay here, we had received many favours. The governor of the fort, Mr. Lufignan, a man of learning and of great

> * Saint Jean. C 3

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politeness, heaped obligations upon us, and treated us with as much civility as if we had been his relations. I had the honor of eating at his table during my ftay here, and my fervant was allowed to eat with his. We had our rooms, &cc. to ourfelves, and at our departure the governor supplied us with ample provisions for our journey to fort St. John. In short, he did us more favours than we could have expected from our own countrymen, and the officers were likewife particularly obliging to us.

ABOUT eleven o'clock in the morning we fet out, with a fair wind. On both fides of the lake are high chains of mountains; with the difference which I have before observed, that on the eastern shore, is a low piece of ground covered with a forest, extending between twelves and eighteen English miles, after which the mountains begin; and the country behind them belongs to New England. This chain confifts of high mountains, which are to be confidered as the boundaries between the French and English pofferfions in these parts of North America. On the western shore of the lake, the mountains reach quite to the water fide. The lake at first is but a French mile broad, but always encreases The country is inhabited afterwards, within 538.4.2

Lake Champlain.

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within a French mile of the fort, but after that, it is covered with a thick foreft. At the distance of about ten French miles from fort St. Frederic, the lake is four fuch miles broad, and we perceive fome illands in it. The captain of the yacht faid there were about fixty islands in that lake, of which some were of a confiderable fize. He affured me that the lake was in most parts fo deep, that a line of two hundred yards could not fathom it; and clefe to the fhore, where a chain of mountains generally runs across the country, it frequently has a depth of eighty fathoms. Fourteen French miles from fort St. Frederic we faw four large islands in the lake, which is here about fix French miles broad. This day the fky was cloudy, and the clouds, which were very low, feemed to furround feveral high mountains, near the lake, with a fog; and from many mountains the fog role, as the fmoke of a charcoal-kiln. Now and then we faw a little river which fell into the lake: the country behind the high mountains, on the western fide of the lake, is, as I am told, covered for many miles together with a tall forest, intersected by many rivers and brooks, with marshes and small lakes, and very fit to be inhabited. The shores are · fome-C 4

fometimes rocky, and fometimes fandy here. Towards night the mountains decreafed gradually; the lake is very clear, and we observed neither rocks nor shallows in it. Late at night the wind abated, and we anchored close to the shore, and spent one night here.

July the 20th. THIS morning we proceeded with a fair wind. The place where we paffed the night, was above half way to fort St. John; for the diftance of that place from fort St. Frederic, across lake Champlain is computed to be forty-one French miles; that lake is here about fix Englifb miles in breadth. The mountains were now out of fight, and the country low, plain, and covered with trees. The fhores were fandy, and the lake appeared now from four to fix miles broad. It was really broader, but the iflands made it appear narrower.

WE often faw Indians in bark-boats, clofe to the fhore, which was however not inhabited; for the Indians came here only to catch flurgeons, wherewith this lake abounds, and which we often faw leaping up into the air. Thefe Indians lead a very fingular life: At one time of the year they live upon the fmall flore of maize, beans, and melons, which they have planted; during another period, or about this time, their

Lake Champlain.

their food is fifh, without bread or any other meat; and another feafon, they cat nothing but ftags, roes, beavers, &cc. which they fhoot in the woods, and rivers. They, however, enjoy long life, perfect health, and are more able to undergo hardfhips than other people. They fing and dance, are joyful, and always content; and would not, for a great deal, exchange their manner of life for that which is preferred in Europe.

WHEN we were yet ten French miles from fort St. John, we faw fome houfes on the weftern fide of the lake, in which the French had lived before the laft war, and which they then abandoned, as it was by no means fafe: they now returned to them again. These were the first houses and fettlements which we faw after we had left those about fort St. Frederic.

THERE formerly was a wooden fort, or redoubt, on the caftern fide of the lake, near the water-fide; and the place where it ftood was fhewn me, which at prefent is quite overgrown with trees. The French built it to prevent the incurfions of the Indians, over this lake; and I was affured that many Frenchmen had been flain in these places. At the same time they told me, that they recken four women to one man

fandy ains decar, and ws in it. anchorht here. we proe where alf way of that ofs lake rty-one out fix untains try low, hores d now s really appear . . . -boats.

ver not re only is lake eaping a very ar they beans, ; durtime, their

man in *Canada*, because annually several *Frenchmen* are killed on their expeditions, which they undertake for the sake of trading with the *Indians*.

A WINDMILL, built of stone, stands on the cast fide of the lake on a projecting piece of ground. Some Frenchmen have lived near it; but they left it when the war broke out, and are not yet come back to it. From this mill to fort St. John they reckon eight French miles. The English, with their Indians, have burnt the houses here several times, but the mill remained unhurt.

THE yacht which we went in to St. John was the first that was built here, and employed on lake Champlain, for formerly they made use of bateaux to send provisions over the lake. The Captain of the yacht was a Frenchman, born in this country, he had built it, and taken the soundings of the lake, in order to find out the true road, between fort St. John and fort St. Frederic. Opposite the windmill the lake is about three fathoms deep, but it grows more and more shallow, the nearer it comes to fort St. John.

WE now perceived houses on the shore again. The captain had otter-skins in the cabin, which were perfectly the same, in colour

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Lake Champlain.

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colour and species, with the European ones. Otters are faid to be very abundant in: Canada.

Seal-fkins are here made use of to cover boxes and trunks, and they often make portmantles of them in Canada. The common people had their tobacco-pouches made of the fame fkins. The feals here are entirely the fame with the Swedish or European one, which are grey with black spots. They are faid to be plentiful in the mouth of the river St. Laurence, below Quebec, and go up that river as far as its water is falt. They have not been found in any of the great lakes of Canada. The French call them Loups marins.*

THE French, in their colonies, spend much more time in prayer and external worship, than the English, and Dutch settlers in the British colonies. The latter have neither morning nor evening prayer in their ships and yachts, and no difference is made between Sunday and other days. They never, or very seldom, say grace at dinner. On the contrary, the French here have prayers every morning and night on board their shipping, and on Sundays they pray more than commonly: they regularly fay grace at their meals; and every one of "Sea Wolves.

them

them fays prayers in private as foon as he gets up. At fort St. Frederic all the foldiers affembled together for morning and evening prayers. The only fault was, that most of the prayers were read in Latin, which a great part of the people do not understand. Below the aforementioned wind-mill, the breadth of the lake is about a musket-shot, and it looks more like a river than a lake. The country on both fides is low and flat, and covered with woods. We faw at first a few scattered cottages along the fhore; but a little further, the country is inhabited without interruption. The lake is here from fix to ten foot deep, and forms feveral islands. During the whole course of this voyage, the fituation of the lake was always directly from S. S. W. to N. N. E.

In fome parts of *Canada* are great tracts of land belonging to fingle perfons; from thefe lands, pieces, of forty *Arpens* long, and four wide, are allotted to each difcharged foldier, who intends to fettle here; but after his houshold is established; he is obliged to pay the owner of the lands fix *Erench Francs* annually.

THE lake was now fo fhallow in feveral places, that we were obliged to trace the way for the yacht, by founding the depth with

on as he e foldiers ind evenvas, that in Latin, e do not nentioned is about re like a on both red with fcattered little furthout inom fix to l illands. s voyage, s directly 1 3. 27 eat tracts ns; from ens long; each diftle here; rd, he is lands fix

n feveral race the he depth with with branches of trees. In other places opposite, it was fometimes two fathom deep.

In the evening, about fun fet, we arrived at fort St. Jean, or St. John, having had a continual change of rain, fun-fhine, wind, and calm, all the afternoon.

July the 21st. Sr. John is a wooden fort, which the French built in 1748, on the western shore of the mouth of lake Champlain, close to the water-fide. It was intended to cover the country round about it, which they were then going to people, and to ferve as a magazine for provisions and ammunition, which were usually fent from Montreal to fort St. Frederic: because they may go in yachts from hence to the last mentioned place, which is impoffible lower down, as about two gunthot further, there is a shallow full of stones, and very rapid water in the river, over which they can only pals in bateaux, or flat veffels. Formerly fort Chamblan, which lies four French miles lower, was the magazine of provisions; but as they were forced first to fend them hither in bateaux, and then from hence in yachts, and the road to fort Chamblan from Montreal being by land, and much round about, this fort was erected. It has a low fituation, and lies in

in a fandy foil, and the country about it is likewife low, flat; and covered with woods. The fort is quadrangular, and includes the fpace of one arpent square. In each of the two corners which look towards the lake is a wooden building, four stories high, the lower part of which is of stone to the height of about a fathom and a half. in thefe buildings which are polyangular, are holes for cannon and leffer fire-arms. In each of the two other corners towards the country, is only a little wooden house, two ftories high. These buildings are intended for the habitations of the foldiers, and for the better defence of the place; between these houses, there are poles, two fathoms and a half high, sharpened at the top, and driven into the ground close to one another. They are made of the Thuya tree, which is here reckoned the best wood for keeping from putrefaction, and is much preferable to fir in that point. Lower down the palifades were double, one row within the other. For the convenience of the foldiers, a broad elevated pavement, of more than two yards in height, is made in the infide of the fort all along the palifades, with On this pavement the balustrade. a foldiers stand and fire through the holes upon the enemy, without being expected to their

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Fort St. John.

out it is th woods. ludes the ch of the he lake is high, the ie to the half." in gular, are arms. In wards the oufe, two e intended s, and for between o fathoms e top, and e another. which is r keeping eferable to e palisades the other. oldiers, a hore than the infide des, with ment the the holes xpcfed to their their fire. In the last year, 1748, two hundred men were in garrifon here; but at this time there were only a governor, a commission of the fort and buildings, and to take care of the fort and buildings, and to superintend the provisions which are carried to this place. The perfon who now coramanded at the fort, was the Chevalier de Gannes, a very agreeable gentleman, and brother-in-law to Mr. Lusignan, the governor of fort St. Frederic. The ground about the fort, on both fides of the water, is rich and has a very good foil; but it is still without inhabitants, though it is talked of, that it should get fome as foon as possible.

THE French in all Canada call the gnats Marangoins, which name, it is faid, they have borrowed from the Indians. These infects are in fuch prodigious numbers in the woods round fort St. John, that it would have been more properly called fort de Marangoins. The marshes and the low fituation of the country, together with the extent of the woods, contribute greatly to their multiplying fo much; and when the woods will be cut down, the water drained, and the country cultivated, they probably will decrease in number, and vanish at last, as they have done in other places.

THE

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THE Rattle Snake, according to the unanimous accounts of the French, is never feen in this neighbourhood, nor further north near Montreal and Quebec; and the mountains which furround fort St. Frederic. are the most northerly part on this fide, where they have been feen. Of all the inakes which are found in Canada to the north of these mountains, none is poifonous enough to do any great harm to a many and all without exception run away when they fee a man. My remarks on the nature and properties of the rattle-fnake, I have communicated to the royal Swediffs academy of sciences, * and thither I reter my readers.

July the 22d. This evening fome people arrived with horfes from Prairie, in order to fetch us. The governor had fent for them at my defire, becaufe there were not yet any horfes near fort St. John, the place being only a year old, and the people had not had time to fettle near it. Those wholed the horfes, brought letters to the governor from the governor-general of Canada, the Marquis la Galiffoniere, dated at Quebec the fifteenth of this month, and from the vice-governor of Montreal, the Baron

See their Memoirs for the year 1752, p. 308, fect. g.

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Fort St. John.

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to the is never further and the *Frederic*, this fide, f all the la to the is poifonto a many way when s on the tle-fnake, al Swediffs er I reter

ing fome Prairie, in r had fent here were John, the the people i. Those to the goof Canada, at Quebec from the he Baron

308, lett. g. de de Longueil, dated the twenty-first of the fame month. They mentioned that I had been particularly recommended by the French court, and that the governor should supply me with every thing I wanted, and forward my journey; and at the fame time the governor received two little cafks of wine for me, which they thought would relieve me on my journey. At night we drank the kings of France and Sweden's health, under a falute from the cannon of the fort, and the health of the governorgeneral and others.

July the 23d. This morning we let out on our journey to Prairie, from whence we intended to proceed to Montreal; the distance of Prairie from fort St John, by land, is reckoned fix French miles, and from thence to Montreal two lieues (leagues) and a half, by the river St. Lawrence. At first we kept along the shore, so that we had on our right the Riviere de St. Jean (St. John's river). This is the name of the mouth of the lake Champlain, which falls into the river St. Lawrence, and is fometimes called Riviere de Champlain (Champlain river.) After we had travelled about a French mile, we turned to the left from the fhore. The country was always low, woody, and pretty wet, though it was Vol. III. in

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in the midst of summer; so that we found it difficult to get forward. But it is to be observed that fort St. John was only built last summer, when this road was first made, and confequently it could not yet have acquired a proper degree of folidity. Two hundred and fixty men were three months at work, in making this road; for which they were fed at the expence of the government, and each received thirty fols every day; and I was told that they would again refume the work next autumn. The country hereabouts is low and woody, and of courfe the refidence of millions of gnats and flies, which were very troublefome to After we had gone about three French US. miles, we came out of the woods, and the ground feemed to have been formerly a marsh, which was now dried up. From hence we had a pretty good prospect on all On our right hand at a great diffides. tance we faw two high mountains, rifing remarkably above the reft; and they were not far from fort Champlain. We could likewise from hence see the high mountain which lies near Montreal; and our road went on nearly in a straight line. Soon after, we got again upon wet and low grounds, and after that into a wood which confifted chiefly of the

From Fort St. John to Prairie. 51

ve found is to be nly built ft made, have ac-7. Two : months r which the goirty fols ey would in. The ody, and of gnats efome to e French and the rmerly a . From ect on all reat difs, rifing ney were le could nountain oad went r, we got and after hiefly of the

the fir with leaves which have a filvery underfide.* We found the foil which we paffed over to day, very fine and rich, and when the woods will be cleared and the ground cultivated, it will probably prove vet, fertile. There are no rocks, and hardly an, stones near the road.

ABOUT four French miles from fort St. John, the country makes quite another appearance. It is all cultivated, and a continual variety of fields with excellent wheat. peafe, and oats, prefented itfelf to our view; but we faw no other kinds of corn. The farms flood fcattered, and each of them was furrounded by its corn fields, and meadows; the houses are built of wood and very small. Instead of mols, which cannot be got here, they employ clay for ftopping up the crevices in the walls. The roofs are made very much floping, and covered with ftraw. The foil is good, flat, and divided by feveral rivulets; and only in a few places there are fome little hills. The prospect is very fine from this part of the road, and as far as I could fee the country, it was cultivated; all the fields were covered with corn, and they generally use fummer-wheat here. The ground is

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^{*} Abies foliis subtus argenteis.

ftill very fertile, so that there is no occasion for leaving it ly as fallow. The forest are pretty much cleared, and it is to be feared that there will be a time, when wood will become very scarce. Such was the appearance of the country quite up to Prairie, and the river St. Lawrence, which last we had now always in fight; and, in a word this country was, in my opinion the finest of North-America, which I had hitherto seen.

ABOUT dinner-time we arrived at Prairie, which is fituated on a little rifing ground near the river St. Lawrence. We staid here this day, because I intended to visit the places in this neighbourhood, before I went on.

Prairie de la Magdelene is a small village on the eastern fide of the river St. Lawrence, about two French miles and a half from Montreal, which place lies N. W. from hence, on the other fide of the river. All the country round Prairie is quite flat, and has hardly any rifings. On all fides are large corn-fields, meadows, and pastures. On the western fide, the river St. Lawrence passes by, and has here a breadth of a French mile and a half, if not more. Most of the houses in Prairie are built of timber, with floping wooden roofs, and the crevices in the

Prairie.

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nall village Lawrence, half from .W. from river. All te flat, and l fides are d pastures. Lawrence of a French Noft of the hber with crevices in the the walls are stopped up with clay. There are some little buildings of stone, chiefly of the black lime-ftone, or of pieces of rock-stone, in which latter the enchasement of the doors and windows was made of the black lime-stone. In the midst of the village is a pretty church of stone, with a steeple at the west end of it, furnished with bells. Before the door is a crofs, together with ladders, tongs, hammers, nails, &c. which are to represent all the instruments made use of at the crucifixion of our Saviour, and perhaps many others befides The village is furrounded with them. palifades, from four yards to five high, put up formerly as a barrier against the incurfions of the Indians. Without these palifades are feveral little kitchen and pleafure gardens, but very few fruit-trees in The rifing grounds along the river, them. are very inconfiderable here. In this place there was a prieft, and a captain, who affumed the name of governor. The cornfields round the place are extensive, and fown with fummer-wheat; but rye, barley and maize are never feen. To the fouthweft of this place is a great fall in the river St. Lawrence, and the noise which it causes, may be plainly heard here. When the water in fpring encreases in the river, on

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on account of the ice which then begins. to diffolve, it fometimes happens to rife fo high as to overflow a great part of the fields, and, instead of fertilizing them as the river Nile fertilizes the Egyptian fields by its inundations, it does them much damage, by carrying a number of graffes and plants on them, the feeds of which fpread the worft kind of weeds, and ruin the fields. These inundations oblige the people to take their cattle a great way off, because the water covers a great tract of land; but happily it never flavs on it above two or three days, The caufe of these inundations is generally owing to the ftopping of ice in some part of the river.

THE Zizania aquatica, or Folle Avoine grows plentiful in the rivulet, or brook, which flows fomewhat below Prairie.

July the 24th. THIS morning I went from Prairie in a bateau to Montreal, upon the river St. Lawrence. The river is very rapid, but not very deep near Prairie, fo that the yacht cannot go higher than Montreal, except in fpring with the high water, when they can come up to Prairie, but no further. The town of Montreal may be feen at Prairie, and all the way down to it. On our arrival, there we found a crowd of people at that gate of the town, where we were no gah ta Pfi gin o cica

From Prairie to Montreal.

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g I went eal, upon er is very rairie, fo han Mongh water, ie, but no ay be feen o it. On crowd of where we were

were to pass through. They were very defirous of seeing us, because they were informed that fome Swedes were to come to town; people of whom they had heard fomething, but whom they had never feen; and we were affured by every body, that we were the first Swedes that ever came to Montreal. As foon as we were landed, the governor of the town fent a captain to me, who defired I would follow him to the governor's house, where he introduced me The Baron Longueuil was as yet to him. vice-governor, but he daily expected his promotion from France. He received me more civilly and generoufly than I can well. describe, and shewed me letters from the governor-general at Quebec, the Marquis de la Galiffoniere, which mentioned that he had received orders from the French court to fupply me with whatever I should want, as I was to travel in this country at the expence of his most Christian majesty. In fhort governor Longueuil loaded me with greater favours than I could expect or even. imagine, both during my prefent flay and on my return from Quebec.

THE difference between the manners and customs of the French in Montreal and Canada, and those of the English in the American colonies, is as great as that be-

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tween

tween the manners of those two nations in Europe. The women in general are handfome here; they are well bred, and virtuous with an innocent and becoming free-They drefs out very fine on Sundays; dom. and though on the other days they do not take much pains with other parts of their drefs, yet they are very fond of adorning their heads, the hair of which is always curled and powdered, and ornamented with glittering bodkins and aigrettes. Every day but Sunday, they wear a little neat jacket, and a short petticoat which hardly reaches half the leg, and in this particular they feem to imitate the Indian women. The heels of their thoes are high, and very narrow, and it is furprizing how they walk on them. In their knowledge of æconomy, they greatly furpals the English women in the plantations, who indeed have taken the liberty of throwing all the burthen of houfekeeping upon their husbands, and fit in their chairs all day with folded arms. * The women in Canada on the contrary do not fpare themfelves, especially among the common

* It feems, that for the future, the fair fex in the English colonies in North-America, will no longer deferve the reproaches Mr. Kaim ftigmatizes them with repeatedly, fince it is generally reported, that the ladies of late have vied one with another, in providing their families with linen, flockings, and home-fpun cloath of their own making, and that a general foirit of industry prevails among them at this prefent time. F.

Montreal.

tions in e handd virtung freeundays; do not of their dorning always ted with Every tle neat h hardly articular women. and very vey walk conomy, omen in aken the of houset in their * The y do not the common

the Englifth erve the reitedly, fince have vied with linen, naking, and hem at this mon people, where they are always in the fields, meadows, stables, &c. and do not diflike any work whatfoever. However, they feem rather remifs in regard to the cleaning of the utenfils, and apartments; for fometimes the floors, both in the town and country, were hardly cleaned once in fix months, which is a difagreeable fight to one who comes from amongst the Dutch and English, where the conftant fcouring and fcrubbing of the floors, is reckoned as important as the exercise of religion itself. To prevent the thick dust, which is thus left on the floor, from being noxious to the health, the women wet it several times a day, which renders it more confistent; repeating the aspersion as often as the dust is dry and rifes again. Upon the whole, however. they are not averse to the taking a part in all the bufiness of housekeeping; and I have with pleafure feen the daughters of the better fort of people, and of the governor himfelf, not too finely dreffed, and going into kitchens and cellars, to look that every thing be done as it ought.

THE men are extremely civil, and take their hats off to every perfon indifferently whom theymeet in the fireets. It is cuftomary to return a vifit the day after you have received one; though one fhould have fome fcores to pay in one day.

I HAVE

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I HAVE been told by fome among the French, who had gone a beaver-hunting with the Indians to the northern parts of Canada, that the animals, whofe fkins they endeavour to get, and which are there in great plenty, are beavers, wild cats, or lynxs, and martens. These animals are the more valued, the further they are caught to the north, for their fkins have better hair, and look better than those which are taken more fouthward, and they became gradually better or worfe, the more they are northward or fouthward.

White Patridges * is the name which the French in Canada give to a kind of birds, abounding during winter near Hudfon's Bay, and which are undoubtedly our Ptarmigans, or Snow-hens (Tetrao Lagopus). They are very plentiful at the time of a great froft, and when a confiderable quantity of fnow happens to fall. They are defcribed to me as having rough white feet, and being white all over, except three or four black feathers in the tail; and they are reckoned very fine eating. From Edward's Natural Hiftory of Birds (pag. 72.) it appears, that the ptarmigans are common about Hudfon's Bay +.

Hares

* Perdrix blanches.

+ See Br. Zool. Suppl. plate XIII. f. 1. F.

Montreal.

ng the bunting arts of ns they here in cats, or are the caught better became re they ich the birds.

Hudfon's r Ptaragopus). ne of a quantidefcribet, and or four ney are dward's it appmmon

Hares

Hares are likewife faid to be plentiful near Hudson's Bay, and they are abundant even in Canada, where I have often feen, and found them perfectly corresponding with our Swedisch hares. In fummer they have a brownish grey, and in winter a fnowy white colour, as with us *.

MECHANICS, fuch as architecture, cabinetwork, turning, and the like, were not yet fo forward here as they ought to be; and the Englift, in that particular, out do the French. The chief caufe of this is, that fcarce any other people than difmiffed foldiers come to fettle here, who have not had any opportunity of learning a mechanical trade, but have fometimes accidentally, and through neceffity been obliged to it. There are however fome, who have a good notion of mechanics, and I faw a perfon here, who made very good clocks, and watches, though he had had but very little inftruction.

July the 27th. THE common houseflies have but been observed in this country about one hundred and fifty years ago, as I have been assured by several persons in this town, and in Quebec. All the Indians affert the same thing, and are of opinion that the com-

* See a figure of this hare in its white state, in the Suppl. to Br, Zool. plate XLVII. f. 1. F.

July 1749.

common flies first came over here, with the Europeans and their fhips, which were ftranded on this coaft. I shall not dispute this; however, I know, that whilft I was in the defarts between Saratoga and Crownpoint, or fort St. Frederic, and fat down to reft or to eat, a number of our common flies always came, and fettled on me. It is therefore dubious, whether they have not been longer in America than the term above mentioned, or whether they have been imported from Europe. On the other hand, it may be urged that the flies were left in those defarts at the time when fort Anne was yet in a good condition, and when the English often travelled there and back again; not to mention that feveral Europeans, both before and after that time, had travelled through those places, and carried the flies with them, which were attracted by their provisions.

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Wild Cattle are abundant in the fouthern parts of Canada, and have been there fince times immemorial. They are plentiful in those parts, particularly where the Illinois Indians live, which are nearly in the fame latitude with Philadelphia; but further to the north they are feldom observed. I faw the skin of a wild ox to-day; it was as big as one of the largest ox hides in Europe,

, with h were dispute I was Crownown to mmon ne. It v have ne term y have e other es were en fort on, and ere and feveral at time, ind carvere at-

buthern re fince tiful in *Illinois* le fame ther to ed. I it was in *Eu*rope, rope, but had better hair. The hair is dark brown, like that on a brown bear-That which is close to the skin, is ſkin. as foft as wool. This hide was not very thick; and in general they do not reckon them fo valuable as bear-fkins in France. In winter they are fpread on the floors. to keep the feet warm. Some of these wild cattle, as I am told, have a long and fine wool, as good, if not better, than sheep wool. They make stockings, cloth, gloves, and other pieces of worsted work of it, which look as well as if they were made of the best sheep wool; and the Indians employ it for feveral uses. The flesh equals the best beef in goodness and fatness. Sometimes the hides are thick, and may be made use of as cow-hides are in Europe. The wild cattle in general are faid to be ftronger and bigger, than European cattle, and of a brown red colour. Their horns are but thort, though very thick close to the head. These and several other qualities, which they have in common with, and in greater perfection than the tame cattle, have induced fome to endeavour to tame them; by which means they would obtain the advantages arifing from their goodness of hair, and, on account of their great firength, be able to employ them fuc-

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fuccessfully in agriculture. With this view fome have repeatedly got young wild calves, and brought them up in Quebec, and other places, among the tame cattle; but they commonly died in three or four years time; and though they have feen people every day, yet they have always retained a natural fero-They have constantly been very thy, city. pricked up their ears at the fight of a man, and trembled, or run about; fo that the art of taming them has not hitherto been found out. Some have been of opinion, that these cattle cannot well bear the cold; as they never go north of the place I mentioned, though the fummers be very hot, even in those northern parts. They think that, when the country about the Illinois will be better peopled, it will be more eafy to tame these cattle, and that afterwards they might more eafily be used to the northerly climates *. The Indians and French in Canada, make use of the horns of these creatures to put gun-powder in. I have briefly mentioned the wild cattle in the former parts of this journey +.

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• But by this means they would loofe that fuperiority, which in their wild flate they have over the tame cattle; as all the progenies of tamed animals degenerate from the excellence of their wild and free anceftors, F.

+ See Vol. I. p. 207.

his view d calves, d other out they rs time ; very day, ral ferovery thy, ht of a out; fo not hiave been not well north of fummers ern parts. try about it will be and that y be used e Indians le of the n-powder wild catney +.... Тне

> fuperiority, tame cattle; te from the

THE peace, which was concluded between France and England, was proclaimed this day. The foldiers were under arms; the artillery on the walls was fired off, and fome falutes were given by the fmall fire-arms. All night fome fireworks were exhibited, and the whole town was illuminated. All the ftreets were crowded with people, till late at night. The governor invited me to fupper, and to partake of the joy of the inhabitants. There were prefent a number of officers, and perfons of diffinction; and the feftival concluded with the greateft joy.

Fuly-the 28th. THIS morning I accompanied the governor, baron Longueuil, and his family, to a little island called Magdelene, which is his own property. It lies in the river St. Lawrence, directly opposite to the town, on the eastern fide. The governor had here a very neat house, though it was not very large, a fine extensive garden, and a court-yard. The river passes between the town and this island, and is very rapid. Near the town it is deep enough for yachts; but towards the island it grows more shallow, fo that they are obliged to push the boats forwards with There was a mill on the island, poles. turned by the mere force of the ftream, without an additional mill-dam.

THE

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THE fmooth fumach, or Rhus glabra, grows in great plenty here. I have no where feen it fo tall as in this place, where it had fometimes the height of eight yards, and a proportionable thicknefs.

Saffafras is planted here; for it is never found wild in these parts, fort Anne being the most northerly place where I have found it wild. Those shifts which were on the island, had been planted many years ago; however, they were but small shrubs, from two to three feet high, and scarce so much. The reason is, because the stem is killed every winter, almost down to the very root, and must produce new shoots every spring, as I have found from my own observations here; and so it appeared to be near the forts Anne, Nicholfon, and Ofwego. It will therefore be in vain to attempt to plant saffafras in a very cold climate.

THE red Mulberry-trees (Morus rubra, Linn.) are likewise planted here. I faw four or five of them about five yards high, which the governor told me, had been twenty years in this place, and were brought from more foutherly parts, fince they do not grow wild near Montreal. The most northerly place, where I have found it growing spontaneously, is about twenty English miles north of Albany, as I have been

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s glabra, have no ce, where sht yards,

it is never lane being have found ere on the years ago; rubs, from e fo much. n is killed every root, yety fpring, bfervations ar the forts will therent faffafras

orus rubra, re. I faw yards high, had been ere brought ce they do The moft e found it but twenty , as I have been

been affured by the country people, who live in that place, and who at the fame time informed me, that it was very fcarce in the woods.] When I came to Saratoga, I enquired whether any of these mulberrytrees had been found in that neighbourhood? but every body told me, that they were never feen in those parts, but that the before mentioned place, twenty miles above Albany, is the most northern one where they grow. Those mulberry-trees, which were planted on this island, fucceed very well, though they are placed in a poor foil. Their foliage is large and thick, but they did not bear any fruits this year. However, I was informed that they can bear a confiderable degree of cold.

THE Waterbeech was planted here in a fhady place, and was grown to a great height. All the French hereabouts call it Cotonier *. It is never found wild near the river St. Lawrence; nor north of fort Sc. Frederic, where it is now very fcarce.

THE red Cedar is called *Cedre rouge* by the *French*, and it was likewife planted in the governor's garden, whither it had been brought from more fouthern parts, for it is not to be met with in the forefts here-Vol. III. E abouts.

* Cotton-tree. Mr. Kalm mentions before, that this name is given to the Afclepias Syriaca. See Vol. III. p. 28. F. abouts. However, it came on very well here.

ABOUT half an hour after feven in the evening we left this pleafant ifland, and an hour after our return the baron *de Longueuil* received two agreeable pieces of news at once. The first was, that his fon, who had been two years in *France*, was returned; and the fecond, that he had brought with him the royal patents for his father, by which he was appointed governor of *Montreal*, and the country belonging to it.

THEY make use of fans here, which are made of the tails of the wild turkeys. As foon as the birds are shot, their tails are spread like fans, and dried, by which means they keep their figure. The ladies and the men of distinction in town wear these fans, when they walk in the streets, during the intensens of the heat.

ALL the grais on the meadows round Montreal, confifts chiefly of a species of Meadow-grass, or the Poa capillaris, Linn. * This is a very flender grass, which grows very close, and succeeds even on the drieft hills. It is however not rich in fcliage; and the flender stalk is chiefly used for hay. We

* Mr. Kalm describes it thus: Poa culmo fubcompresso, panicula senuissima, spiculis trifloris minimis, flosculis basi pubescentibus.

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n in the l, and an Longueuil vsat once. had been ned; and with him by which Montreal,

which are teys. As tails are ich means es and the these fans, luring the

ws round es of Mear, Linn. * lich grows the drieft in feliage; ed for hay. We

bcompresso, pas basi pubescenWe have numerous kinds of graffes in Sweden, which make infinitely finer meadows than this.

July the 30th: THE wild Plumb-trees grow in great abundance on the hills, along the rivulets about the town. They were fo loaded with fruit, that the boughs were quite bent downwards by the weight. The fruit was not yet ripe, but when it comes to that perfection, it has a red colour and a fine tafte, and preferves are fometimes made of it.

Black Currants (Ribes nigrum, Linn.) are plentiful in the fame places, and its berries were ripe at this time. They are very fmall, and not by far foagreeable as those in Sweden.

Parfneps grow in great abundance on the rifing banks of rivers, along the corn-fields, and in other places. This led me to think, that they were original natives of America, and not first brought over by the Europeans. But on my journey into the country of the Iroquois, where no European ever had a fettlement, I never once faw it, though the foil was excellent; and from hence it appears plain enough, that it was transported hither from Europe, and is not originally an American plant; and therefore it is in vain fought for in any part of this con-E 2

tinent, except among the European settlements,

August the 1st. The governor-general of Canada commonly refides at Quebec; but he frequently goes to Montreal, and generally fpends the winter there. In fummer he chiefly refides at Quebec, on account of the king's fhips, which arrive there during that feason, and bring him letters, which he must answer; besides other business which comes in about that time. During his refidence in Montreal he lives in the caftle, as it is called, which is a large house of stone, built by governor-general Vaudreuil, and still belonging to his family, who hire it to the king. The governorgeneral de la Galissoniere is said to like Montreal better than Quebec, and indeed the fituation of the former is by far the more ageeable one.

THEY have in Canada fcarce any other but paper-currency. I hardly ever faw any coin, except French fols, confifting of brafs, with a very fmall mixture of filver; they were quite thin by conftant circulation, and were valued at a fol and a half. The bills are not printed, but written. Their origin is as follows. The French king having found it very dangerous to fend money for

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or-general ebec; but nd gene-1 summer ccount of ere during rs, which r business . During ves in the arge house neral Vauhis family, governorlike Monteed the fithe more

e any other ver faw any ng of brafs, ilver; they lation, and The bills Their oriking havend money for for the pay of the troops, and other purpoles, over to Canada, on account of privateers, shipwrecks, and other accidents; he ordered that instead of it the intendant. or king's steward, at Quebec, or the commiffary at Montreal, is to write bills for the value of the fums which are due to the troops, and which he distributes to each foldier. On these bills is inscribed, that they bear the value of fuch or fuch a fum, till next October; and they are figned by the intendant, or the commissary; and in the interval they bear the value of money. In the month of October, at a certain stated time, every one brings the bills in his possession to the intendant at Quebec, or the commiffary at Montreal, who exchanges them for bills of exchange upon France, which are paid there in lawful money, at the king's exchequer, as foon as they are prefented. If the money is not yet wanted, the bill may be kept till next October, when it may be exchanged by one of those gentlemen, The paper money for a bill upon France. can only be delivered in October, and exchanged for bills upon France. They are of different values, and fome do not exceed a livre, and perhaps fome are still lefs. Towards autumn when the merchants thips come in from France, the merchants en-E 3 deavour

deavour to get as many bills as they can, and change them for bills upon the French These bills are partly printed, treasurv. spaces being left for the name, sum; &c. But the first bill, or paper currency is all wrote, and is therefore lubject to be counterfeited, which has fometimes been done; but the great punishments, which have been inflicted upon the authors of these forged bills, and which generally are capital, have deterred people from attempting it again; fo that examples of this kind are very fcarce at prefent. As there is a great want of fmall coin here, the buyers, or fellers, were frequently obliged to fuffer a small lofs, and could pay no intermediate prices between one livre and two *.

THEY commonly give one hundred and fifty livres a year to a faithful and diligent footman, and to a maid-fervant of the fame character one hundred livres. A journeymen to an artift gets three or four livres a day, and a common labouring man gets thirty or forty fols a day. The fcarcity of labouring people occasions the wages to be fo high; for almost every body finds it

• The fol is the lowefi coin in Canada, and is about the value of a penny in the English colonies. A livre, or franc, (for they are both the fame) contains twenty fols; and three livres, or francs, make an ecu, or crown.

it fo eafy to fet up as a farmer in this uncultivated country, where he can live well, and at a fmall expence, that he does not care to ferve and work for others.

Montreal is the fecond town in Canada. in regard to fize and wealth; but it is the first on account of its fine situation. and mild climate. Somewhat above the town, the river St. Lawrence divides into feveral branches; and by that means forms feveral islands, among which the isle of Montreal is the greatest. It is ten French miles long, and near four broad, in its broadest part. The town of Montreal is built on the eastern fide of the island, and close to one of the most confiderable branches of the river St. Lawrence; and thus it receives a very pleafant, and advantageous fituation. The town has a quadrangular form, or rather it is a rectangular parallelogram, the long and eastern fide of which extends along the great branch of the river. On the other fide it is furrounded with excellent corn-fields, charming meadows, and delightful woods. It has got the name of Montreal from a great mountain, about half a mile weltwards of the town, and lifting its head far above the woods. Monf. Cartier, one of the first Frenchmen who furveyed Canada more accurately, called this E 4 moun-

ey can, French rinted. n; &c. is all : coundone: ve been forged avedeain; so fcarce vant of fellers. a fmall e prices red and

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mountain fo, on his arrival in this island, in the year 1535, when he vifited the mountain, and the Indian town Holhelaga near. it. The priefts who, according to the Roman catholic way, would call every place in this country after fome faint or other, called Montreal, Ville Marie, but they have not been able to make this name general, for: it has always kept its first name. It is pretty well fortified, and furrounded with a high and thick wall. On the east fide it has the river St. Lawrence, and on all the other fides a deep ditch filled with water, which fecures the inhabitants against all danger from the fudden incursions of the enemy's troops. However, it cannot long stand a regular fiege, because it requires a great garrifon, on account of its extent; and because it confists chiefly of wooden houses. Here are several churches, of which I shall only mention that belonging to the friars of the order of St. Sulpitius, that of the Jefuits, that of the Francifcan friars, that belonging to the nunnery, and that of the hospital; of which the first is however by far the finest, both in regard to its outward and inward ornaments, not only in this place, but in all Canada. The priefts of the feminary of St. Sulpitius have a fine large house, where they

they live together. The college of the Franciscan friars is likewise spacious, and has good walls, but it is not fo magnificent as the former. The college of the Jesuits is fmall, but well built. To each of these three buildings areannexed fine large gardens, for the amusement, health, and use of the communities to which they belong. Some of the houfes in the town are built of ftone. but most of them are of timber, though very neatly built. Each of the better fort of houses has a door towards the street. with a feat on each fide of it, for amusement and recreation in the morning and evening. The long streets are broad and strait, and divided at right angles by the short ones: some are paved, but most of them very uneven. The gates of the town are numerous; on the east fide of the town towards the river are five, two great and three leffer ones; and on the other fide are likewife feveral. The governor-general of Canada, when he is at Montreal, refides in the caftle, which the government hires for that purpole of the family of Vaudreuil; but the governor of Montreal is obliged to buy or hire a house in town; though I was told, that the government contributed towards paying the rents.

In the town is a Nunnery, and without its

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its walls half a one; for though the laft was quite ready, however, it had not yet been confirmed by the pope. In the first they do not receive every girl that offers herfelf; for their parents must pay about five hundred ecus, or crowns, for them. Some indeed are admitted for three hundred ecus, but they are obliged to ferve those who pay more than they. No poor girls are taken in.

THE king has erected a hospital for fick foldiers here. The fick perfon there is provided with every thing he wants, and the king pays twelve fols every day for his ftay, attendance, &c. The furgeons are paid by the king. When an officer is brought to this. hospital, who is fallen fick in the fervice of the crown, he receives victuals and attendance gratis : but if he has got a fickness in the execution of his private concerns, and comes to be cured here, he must pay it out of his own purle. When there is room enough in the hospital, they likewise take in fome of the fick inhabitants of the town and country. They have the medicines, and the attendance of the furgeons, gratis, but must pay twelve fols per day for meat, &c.

EVERY Friday is a market-day, when the country people come to the town with provisions, and those who want them must supply h

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fupply themfelves on that day, because it is the only market-day in the whole week. On that day likewise a number of *Indians* come to town, to fell their goods, and buy others.

THE declination of the magnetic needle was here ten degrees and thirty-eight minutes, weft. Mr. Gillion, one of the priefts here, who had a particular tafte for mathematicks and aftronomy, had drawn a meridian in the garden of the feminary, which he faid he had examined repeatedly by the fun and ftars, and found to be very exact. I compared my compafs with it, taking care, that no iron was near it, and found its declination just the fame, as that which I have before mentioned.

ACCORDING to Monf. Gillion's obfervations, the latitude of Montreal is fortyfive degrees and twenty-feven minutes.

MONSR. Pontarion, another priest, had made thermometrical observations in Montreal, from the beginning of this year 1749. He made use of Reaumur's thermometer, which he placed sometimes in a window half open, and sometimes in one quite open, and accordingly it will seldom mark the greatest degree of cold in the air. However, I shall give a short abstract of his obfervations for the winter months. In January

nuary the greatest cold was on the 18th day. of the month, when the Reaumurian thermometer was twenty-three degrees below the freezing point. The leaft degree of cold was on the 31ft of the fame month, when it was just at the freezing point, but most of the days of this month it was from twelve to fifteen degrees below the freezing point. In February the greatest cold was on the 19th, and 25th, when the thermometer was fourteen degrees below the freezing point; and the least was on the 3d day of that month, when it role eight degrees above the freezing point; but it was generally eleven degrees below it. In March the greatest cold was on the 3d. when it was ten degrees below the freezing point, and on the 22d, 23d, and 24th, it was mildest, being fifteen degrees above it : in general it was four degrees below it. In April the greatest degree of cold happened on the 7th, the thermometer being five degrees below the freezing point; the 25th was the mildest day, it being twenty degrees above the freezing point; but in general it was twelve degrees above it. These are the contents chiefly of Mons. Pontarion's observations during those months; but I found, by the manner he made his obfervations, that the cold had every day been from

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Bth day. n therbelow of cold , when ut most s from e freezeft cold he therlow the on the fe eight but it it. In the 3d, e freezd 24th, es above elow it. ld haper being nt; the twenty but in bove it. nf. Ponnonths; his obay been from

from four to fix degrees greater, than he had marked it. He had likewife marked in his journal, that the ice in the river St. Lawrence broke on the 3d of April at Montreal, and only on the 20th day of that month at Quebec. On the 3d of May fome trees began to flower at Montreal, and on the 12th the hoary froft was fo great, that the trees were quite covered with it, as with fnow. The ice in the river clofe to this town is every winter above a French foot thick, and fometimes it is two of fuch feet, as I was informed by all whom I confulted on that head.

SEVERAL of the friars here told me, that the fummers were remarkably longer in *Canada*, fince its cultivation, than they ufed to be before; it begins earlier, and ends later. The winters on the other hand are much fhorter; but the friars were of opinion, that they were as hard as formerly, though they were not of the fame duration; and likewife, that the fummer at prefent was no hotter, than it used to be. The coldeft winds at *Montreal* are those from the north and north-west.

August the 2d. EARLY this morning we left Montreal, and went in a bateau on our journey to Quebec, in company with the second major of Montreal, M. de Sermonville.

ville. We fell down the river St. Lawrence, which was here pretty broad on our left; on the north-west fide was the isle of Montreal, and on the right a number of other isles, and the shore. The isle of Montreal was closely inhabited along the river; and it was very plain, and the rifing land near the fhore confifted of pure mould, and was between three or four yards high. The woods were cut down along the riverfide, for the distance of an English mile. The dwelling-houfes were built of wood, or ftone, indifcriminately, and white-washed on the outfide. The other buildings, fuch as barns, stables, &c. were all of wood. The ground next to the river was turned either into corn-fields, or meadows. Now and then we perceived churches on both fides of the river, the steeples of which were generally on that fide of the church, which looked towards the river, because they are not obliged here to put the steeples on the west end of the churches. Within fix French miles of Montreal we faw feveral islands of different fizes on the river, and most of them were inhabited; and if some of them were without houfes on them, they were fometimes turned into corn-fields, but generally into meadows. We faw no mountains, hills, rocks, or stones to-day, the country

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country being flat throughout, and confifting of pure mould.

ALL the farms in Canada stand separate from each other, fo that each farmer has his possessions entirely distinct from those of his neighbour. Each church, it is true, has a little village near it; but that confifts chiefly of the parfonage, a school for the boys and girls of the place, and of the houses of tradesmen, but rarely of farmhouses; and if that was the case, yet their fields were separated. The farm-houses hereabouts are generally built all along the rifing banks of the river, either close to the water or at some distance from it, and about three or four arpens from each other. To fome farms are annexed fmall orchards; but they are in general without them; however, almost every farmer has a kitchengarden.

I HAVE been told by all those who have made journies to the southern parts of Canada, and to the river Missippi, that the woods there abound with peach-trees, which bear excellent fruit, and that the Indians of those parts fay, that those trees have been there fince times immemorial.

THE farm-houses are generally built of ftone, but fometimes of timber, and have three or four rooms. The windows are feldom

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feldom of glass, but most frequently of paper. They have iron stoves in one of the rooms, and chimnies in the rest. The roofs are covered with boards. The crevices and chinks are filled up with clay. The other buildings are covered with straw.

THERE are feveral Groffes put up with the road fide, which is parallel to the fhores These croffes are very comof the river. mon in Canada, and are put up to excite devotion in the travellers. They are made of wood, five or fix yards high, and proportionally broad. In that fide which looks towards the road is a square hole, in which they place an image of our Saviour, the crofs, or of the holy Virgin, with the child in her arms; and before that they put a piece of glass, to prevent its being spoiled Those crosses which are by the weather. not far from churches, are very much adorned, and they put up about them all the inftruments which they think the Yews employed in crucifying our Saviour, fuch as a hammer, tongs, nails, a flask of vinegar, and perhaps many more than were really made use of. A figure of the cock, which crowed when St. Peter denied our Lord, is commonly put at the top of the crofs.

THE country on both fides was very delightful h

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lightful to day, and the fine flate of its cultivation, added greatly to the beauty of the fcene. It could really be called a village, beginning at *Montreal*, and ending at *Quebec*, which is a diffance of more than one hundred and eighty miles; for the farmhoufes are never above five arpens, and fometimes but three, afunder, a few places excepted. The profpect is exceedingly beautiful, when the river goes on for fome miles together in a ftrait line, becaufe it then fhortens the diffances between the houfes, and makes them form exactly one continued village.

ALL the women in the country, without exception, wear caps of fome kind or Their jackets are fhort, and fo are other. their petticoats, which fcarce reach down to the middle of their legs; and they have a filver crofs hanging down on the breaft. In general they are very laborious; however, I faw fome, who, like the English women in the colonies, did nothing but prattle all the day. When they have any thing to do within doors, they (especially the girls) commonly fing fongs, in which the words Amour and Caur are very frequent. In the country it is usual, that when the husband receives a visit from persons of rank, and dines with them, his wife stands behind VOL. III. F

y of paof the The he creth clay. th ftraw. up with ie fhores ry como excite ire made and proich looks in which our, the the child y put a g spoiled hich are ty much them all the Jews ur, such of vinean were the cock, nied our p of the

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behind and ferves him; but in the towns, the ladies are more diftinguished, and would willingly affume an equal, if not a superior, power to their husbands. When they go out of doors they wear long cloaks, which cover all their other clothes, and are either grey, brown, or blue. The men sometimes make use of them, when they are obliged to go into the rain. The women have the advantage of being in a *deshabille* under these cloaks, without any body's perceiving it.

WE fometimes faw wind-mills near the farms. They were generally built of ftone, with a roof of boards, which, together with its flyers, could be turned to the wind occafionally.

THE breadth of the river was not always equal to-day; in the narroweft place, it was about a quarter of an English mile broad; in other parts it was near two English miles. The fhore was fometimes high and steep, and fometimes low, or floping.

AT three o'clock this afternoon we paffed by the river, which falls into the river St. Lawrence, and comes from lake Champlain, in the middle of which latter is a large ifland. The yachts which go between Montreal and Quebec, go on the fouth-east fide of this island, because it is deeper

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deeper there ; but the boats prefer the north-west fide, because it is nearer, and yet deep enough for them. Besides this island there are several more hereabouts, which are all inhabited. Somewhat further, the country on both fides the river is uninhabited, till we come to the Lac St. Pierre; because it is so low, as to be quite overflowed at certain times of the year. To make up for this deficiency, the country, I am told, is as thickly inhabited further from the river, as we found it along the banks of the river.

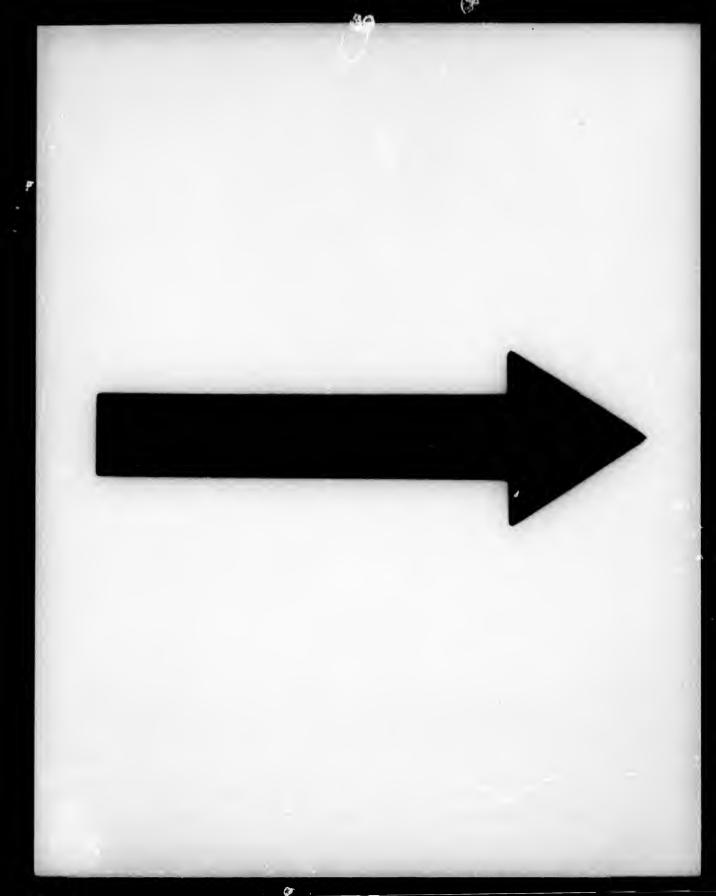
Lac St. Pierreisa part of the river St. Lawrence, which is fo broad that we could hardly fee any thing but fky and water before us, and I was every where told, that it is feven French miles long, and three broad. From the middle of this lake as it is called, you fee a large high country in the weft, which appears above the woods. In the lake are many places covered with a kind of rufh, or Scirpus palustris, Linn. There are no houses in fight on either fide of the lake, because the land is rather too low there; and in fpring the water rifes fo high, that they may go with boats between the trees. However, at fome distance from the shores. where the ground is higher, the farms are close together. We faw no islands in the F 2 lake

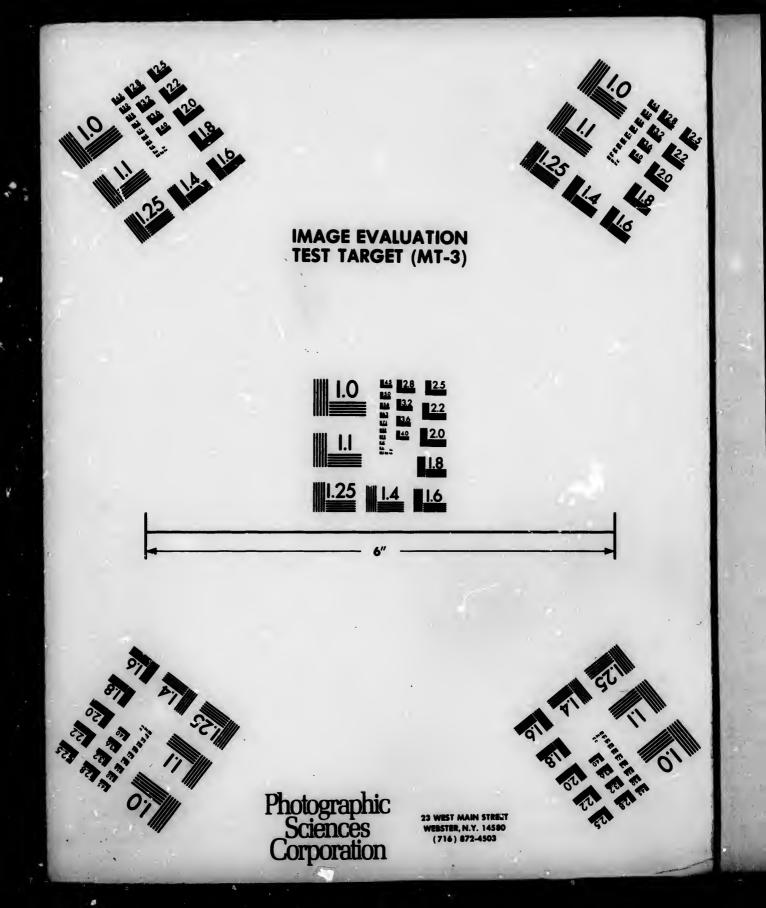
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lake this afternoon, but the next day we met with fome.

LATE in the evening we left lake St. Pierre, and rowed up a little river called Riviere de Loup, in order to come to a house where we might pass the night. Having rowed about an English mile, we found the country inhabited on both sides of the river. Its shores are high; but the country in general is flat. We passed the night in a farm-house. The territory of Montreal extends to this place; but here begins the jurisdiction of the governor of Trois Rivieres, to which place they reckon eight French miles from hence.

August the 3d. AT five o'clock in the morning we fet out again, and first rowed down the little river till we came into the lake St. Pierre, which we went downwards. After we had gone a good way, we perceived a high chain of mountains in the north-weft, which were very much elevated above the low, flat country. The north-west shore of lake St. Pierre was now in general very closely inhabited; but on the fouth-east fide we faw no houses, and only a country covered with woods, which is fometimes faid to be under water, but behind which there are, as I am told, a great number of farms. Towards the end

Trois Rivieres.

end of the lake, the river went into its proper bounds again, being not above a mile and a half broad, and afterwards it grows still narrower. From the end of Lake St. *Pierre* to *Trois Rivieres*, they reckon three *French* miles, and about eleven o'clock in the morning we arrived at the latterplace, where we attended divine fervice.

Trois Rivieres, is a little market town, which had the appearance of a large village; it is however reckoned among the three great towns of Canada, which are Quebec, Montreal, and Trois Riveres. It is faid to ly in the middle between the two first, and thirty French miles diftant from each, The town is built on the north fide of the river St. Lawrence, on a flat, elevated fand, and its fituation is very pleafant. On one fide the river paffes by, which is here an English mile and a half broad. On the other fide, are fine corn-fields, though the foil is very much mixed with fand. In the town are two churches of stone, a nunnery, and a house for the friars of the order of St. Francis. This town is likewife the feat of the third governor in Canada, whofe house is likewise of stone. Most of the other houses are of timber a fingle ftory high, tolerably well built, and fland very much afunder; and the ftreets are crooked. The fhore here F 3 confifts

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confifts of fand, and the rifing grounds along it are pretty high. When the wind is very violent here, it raifes the fand, and blows it about the streets, making it very troublesome to walk in them. The nuns, which are about twenty-two in number, are reckoned very ingenious in all kinds of needle-work. This town formerly flourished more than any other in Canada, for the Indians brought their goods to it from all fides; but fince that time they go to Montreal and Quebec, and to the English, on account of their wars with the Iroquese, or Five Nations, and for feveral other reasons, fo that this town is at prefent very much reduced by it. Its present inhabitants live chiefly by agriculture, though the neighbouring iron-works may ferve in fome measure to fupport them. About an English mile below the town, a great river falls into the river St. Lawrence, but first divides into three branches, fo that it appears as if three rivers difembogued themfelves there. This has given occasion to call the river and this town, Trois Rivieres (the Three Rivers).

THE tide goes about a French mile above Trois Rivieres, though it is fo triffing as to be hardly observable. But about the equinoxes, and at the new moons and full moons in spring and autumn, the difference between the highest

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Trois Rivieres.

higheft and loweft water is two feet. Accordingly the tide in this river goes very far up, for from the above mentioned place to the fea they reckon about a hundred and fifty *French* miles.

WHILST my company were refting, I went on horfeback to view the iron-work. The country which I paffed through was pretty high, fandy, and generally flat. I faw neither ftones nor mountains here.

THE iron-work, which is the only one in this country, lies three miles to the west of Trois Rivieres. Here are two great forges, befides two leffer ones to each of the great ones, and under the fame roof with them. The bellows were made of wood, and every thing elfe, as it is in Swedish forges. The melting ovens stand close to the forges, and are the fame as The ore is got two French miles ours. and a half from the iron works, and is carried thither on fledges. It is a kind of moor ore *, which lies in veins, within fix inches or a foot from the furface of the ground. Each vein is from fix to eighteen inches deep, and below it is a white fand. The

• Tophus Tubalcaini, Linn. Syst. Nat. III. p. 187, n. 5. Minera ferri subaquosa nigro cæralescens. Wall. Mineral. p. 263. Germ. Ed. p. 340. n. 3. Iron ockres in the shape of crusts, are sometimes cavernous, as the Brush ore. Forster's Mineral. p. 48.

very ws it fome about very vork. than ndians ; but and count Five fo that duced chiefly ouring ure to ile beto the es into fthree This nd this rs). above sto be noxes, fpring

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The veins are furrounded with this fand on both fides, and covered at the top with a thin mould. The ore is pretty rich and lies in loofe lumps in the veins, of the fize of two fifts, though there are a few which are near eighteen inches thick. Thefe lumps are full of holes, which are filled The ore is fo foft that it may with ockre. be crushed betwixt the fingers, They make use of a grey lime-stone, which is broke in the neighbourhood, for promoting the fufibility of the ore; to that purpose they likewife employ a clay marle, which is found near this place. Charcoals are to be had in great abundance here, because all the country round this place is covered with woods, which have never been ftirred. The charcoals from ever-green trees, that is, from the fir kind, are best for the forge, but those of deciduous trees are best for the fmelting oven. The iron which is here made, was to me described as soft, pliable, and tough, and is faid to have the quality of not being attacked by ruft fo eafily as other iron; and in this point there appears a great difference between the Spanish iron and this in ship-building. This iron-work was first founded in 1737, by private perfons, who afterwards ceded it to the king; they cast cannon and mortars here, of different fizes,

Trois Rivieres.

fizes, iron floves which are in use all over Canada, kettles, &c. not to mention the bars which are made here. They have likewise tried to make steel here, but cannot bring it to any great perfection, because they are unacquainted with the best manner of preparing it. Here are many officers and overfeers, who have very good houfes, built on purpose for them. It is agreed on all hands, that the revenues of the ironwork do not pay the expences which the king must every year be at in maintaining They lay the fault on the bad state of it. population, and fay that the few inhabitants in the country have enough to do with agriculture, and that it therefore cofts great trouble and large sums, to get a sufficient number of workmen. But however plaufible this may appear, yet it is furprizing that the king should be a lofer in carrying on this work; for the ore is eafily broken, very near the iron-work, and very fufible. The iron is good, and can be very conveniently dispersed over the country. This is moreover the only iron-work in the country, from which every body must fupply himfelf with iron tools, and what other iron he wants. But the officers and fervants belonging to the iron-work, appear to be in very affluent circumstances. A river runs

fand on with a ich and the fize v which Thefe re filled t it may They which is omoting purpose , which ls are to cause all red with ftirred. es, that he forge, t for the is here pliable, e quality eafily as appears nifb iron on-work persons, g; they different fizes,

runs down from the iron-work, into the river St. Lawrence, by which all the iron can be fent in boats throughout the country at a low rate. In the evening I returned again to Trois Rivieres.

August the 4th. AT the dawn of day we left this place and went on towards Quebec. We found the land on the north fide of the river fomewhat elevated, fandy, and closely inhabited along the water fide. The fouth-east shore, we were told, is equally well inhabited; but the woods along that fhore prevented our feeing the houses, which are built further up in the country, the land close to the river being fo low as to be fubject to annual inun-Near Trois Rivieres, the river dations. grows fomewhat narrow; but it enlarges again, as foon as you come a little below that place, and has the breadth of above two English miles.

As we went on, we faw feveral churches of ftone, and often very well built ones. The fhores of the river are clofely inhabited for about three quarters of an *Englifk* mile up the country; but beyond that the woods and the wildernefs encreafe. All the rivulets falling into the river St. *Lawrence* are likewife well inhabited on both fides. I obferved throughout *Canada*, that the cultivated

Between Trois Rivieres and Quebec. 91

vated lands ly only along the river St, Lawrence, and the other rivers in the country, the environs of towns excepted, round which the country is all cultivated and inhabited within the diftance of twelve or eighteen English miles. The great iflands in the river are likewise inhabited.

THE shores of the river now became higher, more oblique and steep, however they confifted chiefly of earth. Now and then fome rivers or great brooks fall into the river St. Lawrence, among which one of the most confiderable is the Riviere Puante, which unites on the fouth-cast fide with the St. Lawrence, about two French miles below Trois Rivieres, and has on its banks, a little way from its mouth, a town called Becancourt which is wholly inhabited by Abenakee Indians, who have been converted to the Roman catholic religion, and have Jesuits among them. At a great distance, on the north-west fide of the rive to we faw a chain of very high mountains, running from north to fouth, elevated above the reft of the country, which is quite flat here without any remarkable hills.

HERE were feveral lime-kilns along the river; and the lime-ftone employed in them is broke in the neighbouring high grounds. It is compact and grey, and the lime it yields is pretty white.

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THE fields here are generally fown with wheat, oats, maize, and peafe. Gourds and water-melons are planted in abundance near the farms.

A Humming bird (Trochilus Colubris) flew among the bufnes, in a place where we landed to day. The French call it Oifeau mouche, and fay it is pretty common in Canada; and I have feen it fince feveral times at Quebec.

ABOUT five o'clock in the afternoon we were obliged to take our night's lodgings on shore, the wind blowing very strong against us, and being attended with rain. I found that the nearer we came to Quebec, the more open and free from woods was the country. The place where we passed the night, is distant from Quebec twelve French miles. v le it ti ti ti ti ti

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THEY have a very peculiar method of catching fifh near the fhore here. They place hedges along the fhore, made of twifted oziers, fo clofe that no fifh can get through them, and from one foot to a yard high, according to the different depth of the water. For this purpofe they choofe fuch places where the water runs off during the ebb, and leaves the hedges quite dry. Within this inclofure they place feveral weels, or fifh-traps, in the form of cylinders, but broader below. They are placed upright, and

Between Trois Rivieres and Quebec. 93

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noon we gings on g against I found the more country. night, is miles. thod of. They ftwifted through d high, of the ble fuch ing the Withweels, rs, but pright, and and are about a yard high, and two feet and a half wide: on one fide near the bottom is an entrance for the filhes, made of twigs, and fometimes of yarn made into a net. Oppofite to this entrance, on the other fide of the weel, looking towards the lower part of the river, is another entrance, like the first, and leading to a box of boards about four foot long, two deep, and two broad. Near each of the weels is a hedge, leading obliquely to the long hedge, and making an acute angle with it. This latter hedge is made in order to lead the fifh into the trap, and it is placed on that end of the long hedge which looks towards the upper part of the river; now when the tide comes up the river, the fifh, and chiefly the eels, go up with it along the river fide; when the water begins to ebb, the fish likewife go down the river, and meeting with the hedges, they fwim along them, till they come through the weels into the boxes of boards, at the top of which there is a hole with a cover, through which the fish could be taken out. This apparatus is chiefly made on account of the eels. In fome places hereabouts they place nets inftead of the hedges of twigs.

THE shores of the river now confisted no more of pure earth; but of a species of flate. They are very steep and nearly perpendicular

pendicular here, and the flates of which they confift are black, with a brown caft; and divisible into thin shivers, no thicker than the back of a knife. These flates moulder as foon as they are exposed to the open air, and the shore is covered with grains of small fand, which are nothing but particles of such mouldered flates. Some of the strata run horizontal, others obliquely, dipping to the fouth and rifing to the north, and fometimes the contrary way. Sometimes they form bendings like large semicircles : sometimes a perpendicular line cuts off the ftrata, to the depth of two feet; and the flates on both fides of the line from a perpendicular and fmooth wall. In fome places hereabouts, they find amongst the flates, a stratum about four inches thick of a grey, compact, but pretty foft limestone, of which the Indians for many centuries have made, and the French at prefent still make, tobacco-pipes*.

August the 5th. THIS morning, we continued our journey by rowing, the contrary wind hindering us from failing. The appearance

* This lime-ftone, feems to be a marle, or rather a kind of ftone-marle: for there is a whitifh kind of it in the *Krim-Tartary*, and near *Stiva* or *Thebes*, in *Greece*, which is employed by the *Turks* and *Tartars* for making heads of pipes, and that from the first place is called *Keffekil*, and in the latter, *Sea-Scum*: it may be very eafily cut, but grows harder in time. F. loi th th ab

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Between Trois Rivieres and Quebec. 95

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rather a kind of it in the *ireece*, which ing heads of *fikil*, and in t, but grows

pearance of the fhores, was the fame as vesterday; they were high, pretty steep, and quite perpendicular; and confifted of the black flate before described. The country at the top was a plain without eminences. and closely inhabited along the river, for about the space of an English mile and a half in-land. Here are no islands in this part of the river, but feveral ftony places, perceptible at low water only, which have feveral times proved fatal to travellers. The breadth of the river varies; in some parts it was a little more than three quarters of a mile, in others half a mile, and in fome above two miles. The inhabitants made use of the fame method of catching cels along the shores here, as that which I have just before mentioned. In many places they make use of nets made of ofiers instead of the hedge.

BUGS (Cimex lectularius) abound in Canada; and I met with them in every place where I lodged, both in the towns and country, and the people know of no other remedy for them than patience.

THE Crickets (Gryllus domesticus) are also abundant in Canada, especially in the country, where these disagreeable guests lodge in the chimnies; nor are they uncommon in the towns. They stay here both summer and

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and winter, and frequently cut clothes in pieces for pastime.

THE Cockroaches (Blatta orientalis) have never been found in the houses here.

THE shores of the river grow more floping as you come nearer to Quebec. To the northward appears a high ridge of moun-About two French miles and a half tains. from Quebec, the river becomes very narrow, the fhores being within the reach of a musket shot from each other. The country on both fides was floping, hilly, covered with trees, and had many fmall rocks; the fhore was ftony. About four o'clock in the afternoon we happily arrived at Quebec. The city does not appear till one is close to it, the prospect being int rcepted by a high mountain on the fouth fide . However, a part of the fortifications a pears at a good diftance, being fituate on ' ie fame mountain. As foon as the fold ers, who were with us, faw Quebec, they alled out, that all those who had never bee there before, should be ducked, if they did not pay fomething to release themselves. This cultom even the governor-general of Canada is obliged to fubmit to, on his first journey to Montreal. We did not care when we came in fight of this town to be exempted from this old cuftom, which is very advantageous

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lis) have pre flop-To the mound a half ry narreach of e coun-Coverrocks; o'clock at Queone is rcepted Howpears at e fame 's, who led out, ere benot pay nis cuf-Canada ourney ien we mpted ry adageous

vantageous to the rowers, as it enables them to fpend a merry evening on their arrival at *Quebec*, after their troublefome labour.

IMMEDIATELY after my arrival, the officer who had accompanied me from Montreal, led me to the palace of the then vicegovenor-general of Canada, the marquis la Galiffonniere, a nobleman of uncommon qualities, who behaved towards me with extraordinary goodnefs, during the time he ftaid in this country. He had already ordered fome apartments to be got ready for me, and took care to provide me with every thing I wanted; befides honouring me fo far to invite me to his table, almost every day I was in town.

August the 6th. Quebec, the chief city in Canada, lies on the weftern fhore of the river St. Lawrence, close to the water's edge, on a neck of land, bounded by that river on the east fide, and by the river St. Charles on the north fide; the mountain, on which the town is built, rifes still higher on the fouth fide, and behind it begin great pastures; and the same mountain likewise extends a good way westward. The city is distinguished into the lower and the upper*. The lower lies on the river, east-

* La baute Ville & la basse Ville, Vol. III, G

ward

ward of the upper. The neck of land, I mentioned before, was formed by the dirt and filth, which had from time to time been accumulated there, and by a rock which lay that way, not by any gradual diminution of the water. The upper city lies above the other, on a high hill, and takes up five or fix times the space of the lower, though it is not quite fo populous. The mountain, on which the upper city is fituated, reaches above the houses of the lower city. Notwithstanding the latter are three or four stories high, and the view, from the palace, of the lower city (part of which is immediately under it) is enough to cause a swimming of the head. There is only one eafy way of getting to the upper city, and there part of the mountain has been blown up. This road is very fteep, notwithstanding it is made winding and serpentine. However, they go up and down it in carriages, and with waggons. All the other roads up the mountain are fo steep, that it is very difficult to climb to the top by them. Most of the merchants live in the lower city, where the houfes are built very close together. The ftreets in it are narrow, very rugged, and almost always wet. There is likewife a church, and a fmall market-place. The upper city

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ty is is inhabited by people of quality, by feveral perfons belonging to the different offices, by tradefmen, and others. In this part are the chief buildings of the town, among which the following are worthy particular notice.

I. THE Palace is fituated on the west or steepest fide of the mountain, just above the lower city. It is not properly a palace, but a large building of stone, two stories high, extending north and fouth. On the west fide of it is a court-yard, furrounded partly with a wall, and partly with houses. On the east fide, or towards the river, is a gallery as long as the whole building, and about two fathom broad, paved with fmooth flags, and included on the outfides by iron rails, from whence the city and the river exhibit a charming pro-This gallery ferves as a very agreespect. able walk after dinner, and those who come to speak with the governor-general wait here till he is at leifure. The palace is the lodging of the governor-general of Canada, and a number of foldiers mount the guard before it, both at the gate and in the court-yard; and when the governor, or the bishop, comes in or goes out, they must all appear in arms, and beat the drum. The governor-general has his G 2' own

own chapel where he hears prayers; however, he often goes to mais at the church of the *Recolets* *, which is very near the palace.

II. THE Churches in this town are feven or eight in number, and all built of stone.

1. THE Cathedral church is on the right hand, coming from the lower to the upper city, fomewhat beyond the bifhop's house. The people were at present employed in ornamenting it. On its west fide is a round steeple, with two divisions, in the lower of which are some bells. The pulpit, and fome other parts within the church, are gilt. The seats are very fine.

2. THE Jefuits church is built in the form of a crofs, and has a round steeple. This is the only church that has a clock, and I shall mention it more particularly below.

3. THE Recolets church is opposite the gate of the palace, on the west fide, looks well, and has a pretty high pointed steeple, with a division below for the bells.

4. THE church of the Urfulines has a round fpire.

5. THE church of the hospital.

6. THE bishop's chapel.

7. THE

• A kind of Franciscan friars, called Orde Sti. Francisci fristioris observantiæ.

7. THE church in the lower city was built in 1690, after the town had been delivered from the English, and is called Notre Dame de la Victoire. It has a small steeple in the middle of the roof, square at the bottom, and round at the top.

8. THE little chapel of the governorgeneral, may likewife be ranked amongst these churches.

III. THE bishop's house is the first, on the right hand, coming from the lower to the upper town. It is a fine large building, furrounded by an extensive courtyard and kitchen-garden on one fide, and by a wall on the other.

IV. THE college of the Jesuits, which I will describe more particularly. It has a much more noble appearance, in regard to its fize and architecture, than the palace itfelf, and would be proper for a palace if it had a more advantageous fituation. It is about four times as large as the palace, and is the finest building in town. It stands on the north fide of a market, on the fouth fide of which is the cathedral.

V. THE house of the Recolets lies to the weft, near the palace and directly over against it, and confists of a spacious building, with a large orchard, and kitchen-The house is two stories high. garden. In

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In each ftory is a narrow gallery with rooms and halls on one, or both fides.

VI. THE Hôtel de Dieu, where the fick are taken care of, shall be described in the sequel. The nuns, that serve the fick, are of the Augustine order.

VII. THE house of the clergy * is a large building, on the north-east fide of the cathedral. Here is on one fide a spacious court, and on the other, towards the river, a great orchard, and kitchen-garden, Of all the buildings in the town none has fo fine a prospect as that in the garden belonging to this house, which lies on the high thore, and looks a good way down The Jesuits on the other hand the river. have the worft, and hardly any prospect at all from their college; nor have the Recolets any fine views from their house. In this building all the clergy of Quebec lodge with their superior. They have large pieces of land in leveral parts of Canada, prefented to them by the government, from which they derive a very plentiful income.

VIII. THE convent of the Urfuline nuns shall be mentioned in the sequel.

THESE are all the chief public buildings in the town, but to the north-weft, just before the town, is

* Le Seminaire.

IX.

IX. THE house of the intendant, a public building, whose fize makes it fit for a palace. It is covered with tin, and stands in a second lower town, fituated southward upon the river St. Charles. It has a large and fine garden on its north fide. In this house all the deliberations concerning this province, are held; and the gentlemen who have the management of the police and the civil power meet here, and the intendant generally presides. In affairs of great confequence the governor-general is likewife here. On one side of this house is the store-house of the crown, and on the other the prison.

Most of the houses in Quebec are built of stone, and in the upper city they are generally but one ftory high, the public buildings excepted. I faw a few wooden houses in the town, but they must not be rebuilt when decayed. The houfes and ' churches in the city are not built of bricks, but the black lime-flates of which the mountain consists, whereon Quebec stands. When these lime-flates are broke at a good depth in the mountain, they look very compact at first, and appear to have no shivers, or lamella, at all; but after being exposed a while to the air, they separate into thin These flates are fost, and eafily leaves. **G** 4 cut;

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cut; and the city-walls, together with the garden-walls, confift chiefly of them. The roofs of the public buildings are covered with common flates, which are brought from France, because there are none in Canada.

THE flated roofs have for fome years withflood the changes of air and weather, without fuffering any damage. The private houses have roofs of boards, which are laid parallel to the fpars, and fometimes to the eaves, or fometimes obliquely. The corners of houses are made of a grey small grained lime-stone, which has a ftrong fmell, like the flinkstone *, and the windows are generally enchafed with it. This lime-ftone is more ufeful in those places than the lime-flates, which always shiver in the air. The outfides of the houfes are generally whitewashed. The windows are placed on the inner fide of the walls; for they have fometimes double windows in winter. The middle roof has two, or at most three spars, covered with boards only. The rooms are warmed in winter by fmall iron ftoves, which are removed in fummer. The floors are very dirty in every house, and have all the

* Nitrum fuillum. Linn. Syst. III. p. 86. Lapis fuillus prifmaticus Waller. Mineral. p. 59. a. 1. Stink-flone, Furfler's Introd. to Mineralogy. p. 40.

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s withwithout houses parallel ves, or houses -ftone, Rinkly enmore flates, e outvhiten the fome-The spars, is are oves, floors e all the

fuillus 15 Förthe appearance of being cleaned but once every year.

THE Powder magazine stands on the fummit of the mountain, on which the city is built, and fouthward of the palace.

THE fireets in the upper city have a fufficient breadth, but are very rugged, on account of the rock on which it lies; and this renders them very difagreeable and troublefome, both to foot-passengers and carriages. The black lime-flates bassent out and project every where into sharp angles, which cut the shoes in pieces. The streets cross each other at all angles, and are very crooked.

THE many great orchards and kitchengardens, near the house of the Jesuits, and other public and private buildings, make the town appear very large, though the number of houses it contains is not very confiderable. Its extent from south to north is faid to be about fix hundred toises, and from the shore of the river along the lower town, to the western wall between three hundred and fifty, and four hundred toises. It muss be here observed, that this space is not yet wholly inhabited; for on the west and south fide, along the town walls, are large pieces of land without any buildings on them, and destined to

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be built upon in future times, when the number of inhabitants will be encreased in Quebec.

THE bilhop, whole fee is in the city, is the only bishop in Canada. His diocese extends to Louifiana, on the Mexican gulf fouthward, and to the fouth-feas westward.

No bishop, the pope excepted, ever had a more extensive diocese. But his spiritual flock is very inconfiderable at some distance from Quebec, and his fheep are often many hundred miles distant from each other.

Quebec is the only fea-port and trading town in all Canada, and from thence all the produce of the country is exported. The port is below the town in the river, which is there about a quarter of a French mile broad, twenty-five fathoms deep, and its ground is very good for anchoring. The ships are secured from all storms in this port; however, the north-east wind is the worft, becaufe it can act more powerfully. When I arrived here. I reckoned thirteen great and imall veffels, and they expected more to come in. But it is to be remarkad, that no other thips than French ones can come into the port, though they may come from any place in France, and likewife from the French poffessions in the Welt-

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West-Indies. All the foreign goods, which are found in Montreal, and other parts of Canada, must be taken from hence. The French merchants from Montreal on their fide, after making a fix months itay among several Indian nations, in order to purchase skins of beasts and furrs, return about the end of August, and go down to Quebec in September or October, in order to fell their goods there. The privilege of felling the imported goods, it is faid, has vaftly enriched the merchants of Quebec; but this is contradicted by others, who allow that there are a few in affluent circumstances. but that the generality poffers no more than is abfolutely neceffary for their bare fubfistence, and that feveral are very much in debt, which they fay is owing to their luxury and vanity. The merchants drefs very finely, and are extravagant in their repasts; and their ladies are every day in full drefs, and as much adorned as if they were to go to court.

THE town is furrounded on almost all fides by a high wall, and especially towards the land. It was not quite completed when I was there, and they were very busy in finishing it. It is built of the above mentioned black lime-flate, and of a dark-grey fandstone. For the corners of the gates they have

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have employed a grey lime-ftone. They have not made any walls towards the water fide, but nature feems to have worked for them, by placing a rock there which it is impoffible to afcend. All the rifing land thereabouts is likewife fo well planted with cannon, that it feems impoffible for an enemy's fhips or boats to come to the town without running into imminent danger of being funk. On the land fide the town is likewife guarded by high mountains fo that nature and art have combined to fortify it.

Quebec was founded by its former governor, Samuel de Champlain, in the year 1608. We are informed by hiftory, that its rife was very flow. In 1629 towards the end of July it was taken by two Englishmen Lewis and Thomas Kerk, by capitulation, and furrendered to them by the above mentioned de Champlain. At that time, Canada and Quebec were wholly destitute of provisions, so that they looked upon the English more as their deliverers, than their enemies. The abovementioned Kerks, were the brothers of the English admiral David Kerk, who lay with his fleet fomewhat lower in the river. In the year 1632, the French got the town of Quebec, and all Canada returned to them by

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by the peace. It is remarkable, that the French were doubtful whether they should reclaim Canada from the English or leave it to them. The greater part were of opinion that to keep it would be of no advantage to France, because the country was cold; and the expences far exceeded its produce; and because France could not people to extensive a country without weakening herself, as Spain had done before. That it was better to keep the people in France, and employ them in all forts of manufactures, which would oblige the other European powers who have colonies in America to bring their raw goods to French ports, and take French manufactures in return. Those on the other hand who had more extensive views knew that the climate was not fo rough as it had been represented. They likewise believed that that which caused the expences was a fault of the company, because they did not manage the country well. They would not have many people fent over at once, but little by little, fo that France might They hoped that this colony not feel it. would in future times make France powerful. for its inhabitants would become more and more acquainted with the herring, whale, and cod fisheries, and likewise with the

the taking of feals; and that by this means Canada would become a school for training up seamen. They further mentioned the feveral forts of furrs, the conversion of the Indians, the thip-building, and the various uses of the extensive woods. And lastly that it would be a confiderable advantage to France, even though they should reap no other benefit, to hinder by this means the progress of the English in America, and of their encreasing power, which would otherwise become insupportable to France; not to mention feveral other reasons. Time has thewn that these reasons were the result of mature judgment, and that they laid the foundation to the rife of France. It were to be wished that we had been of the same opinion in Sweden, at a time when we were actually in poffession of New Sweden, the finest and best province in all North America, or when we were yet in a condition to get the poffeffion of it. Wildom and forelight does not only look upon the prefent times, but even extends its views to futurity.

In the year 1663 at the beginning of *February*, the great earthquake was felt in *Quebec* and a great part of *Canada*, and there are ftill fome veftiges of its effects at that time; however, no lives were loft.

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On the 16th of October 1690, Quebec was befieged by the English general William Phips, who was obliged to retire a few days after with great lofs. The English have tried several times to repair their loss, but the river St. Lawrence has always been a very good defence for this country. An enemy, and one that is not acquainted with this river, cannot go upwards in it, without being ruined; for in the neighbourhood of Quebec, it abounds with hidden rocks, and has strong currents in some places, which oblige the spire of the second second

THE name of Quebec it is faid is derived from a Norman word, on account of its fituation on a neck or point of land. For when one comes up in the river by l' Ifle d'Orleans, that part of the river St. Law. rence does not come in fight, which lies above the town, and it appears as if the river St. Charles which lies just before, was a continuation of the St. Lawrence. But on advancing further the true course of the river comes within fight, and has at first a great fimilarity to the mouth of a river or a great bay. This has given occasion to a failor, who faw it unexpectedly, to cry out in his provincial dialect Que bec *, that is, what a point of land ! and from hence it is thought

* Meaning Quel bec.

thought the city obtained its name. Others derive it from the Algonkin word Quebego or Quebec fignifying that which grows narrow, because the river becomes narrower as it comes nearer to the town.

THE river St. Lawrence, is exactly a quarter of a French mile, or three quarters of an English mile broad at Quebec. The falt water never comes up to the town in it, and therefore the inhabitants can make use of the water in the river for their kitchens. &c. All accounts agree that notwithftanding the breadth of this river, and the violence of its course, especially during ebb, it is covered with ice during the whole winter, which is strong enough for walking, and a carriage may go over it. It is faid to happen frequently that, when the river has been open in May, there are fuch cold nights in this month, that it freezes again, and will This is a clear proof bear walking over. of the intenfenels of the froft here, especially when one confiders that which I shall mention immediately after, about the ebbing and flowing of the tide in this river. The greatest breadth of the river at its mouth, is computed to be twenty-fix French miles or feventy-eight English miles, though the boundary between the fea, and the river cannot-well be afcertained as the latter gradually loofes itfelf in, and unites with the

the former. The greatest part of the water contained in the numerous lakes of *Canada*, four or five of which are like large feas, is forced to difembogue into the fea by means of this river alone. The navigation up this river from the fea is rendered very dangerous by the strength of the current, and by the number of fand-banks, which often arise in places where they never were before. The *English* have experienced this formation of new fands once or twice, when they intend to conquer *Canada*. Hence the *French* have good reasons to look upon the river as a barrier to *Canada*^{*}.

THE tide goes far beyond Quebec in the river St. Lawrence, as I have mentioned above. The difference between high and low water is generally between fifteen and fixteen feet, French measure; but with the new and full moon, and when the wind is likewise favourable, the difference is seventeen or eighteen feet, which is indeed very confiderable.

* The river St. Lawrence, was no more a barrier to the victorious Britif fleets in the laft war, nor were the fortifications of Quebec capable to with fland the gallant attacks of their land army, which difappointed the good Frenchmen in Canada of their too fanguine expectations, and at prefent, they are rather happy at this change of fortune, which has made them fubjects of the Britif fceptre, whole mild influence they at prefent enjoy. F.

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August

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August the 7th. Ginseng is the current French name in Canada, of a plant, the root of which, has a very great value in China*. It has been growing fince times immemorial in the Chinefe Tartary and in Corea, where it is annually collected and brought to China. Father Du Halde fays, it is the most precious, and the most useful of all the plants in eastern Tartary, and attracts, every year, a number of people into the deferts of that country. The Mantechoux-Tartars call it Orhota, that is the most noble, or the queen of plants+. The Tartars and Chinefe praise it very much, and afcribe to it the power of curing feveral dangerous diseases, and that of restoring to the body new strength, and supplying the lofs caufed by the exertion of the mental, and corporeal faculties. An ounce of Ginfeng bears the furprizing price of feven or eight ounces of filver at Peking. When the French botanists in Canada first faw a figure of it, they remembered to have feen

* Botanist's know this plant by the name of Panax quinquefolium, foliis ternatis quinatis LINN. Mat. Med. § 116. Sp. plant. p. 15. 12. Gronow. Fl. Virg. p. 147. See like wife Catefly's Nat. Hist of Carclina. Vol. III. p. 16. t. 16. Lafitau Gins. 51. t. 1. Father Charlewoix Hist. de la Nouvelle France. Tom. IV. p. 308. fig. XIII. and Tom. V. p. 24.

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† Peter Osbeck's voyage to China, Vol. I. p. 223.

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max quin-. § 116. See like 16. t. 16. la Nou-Fom. V. a fimiliar plant in this country. They were confirmed in their conjecture by confidering that feveral fettlements in Canada, ly under the fame latitude with those parts of the Chinefe Tartary, and China, where the true Ginfeng grows wild. They fucceeded in their attempt, and found the fame Ginfeng wild and abundant in feveral parts of North-America, both in French and English plantations, in plain parts of the woods. It is fond of shade, and of a deep rich mould, and of land which is neither wet nor high. It is not every where very common, for fometimes one may fearch the woods for the fpace of feveral miles without finding a fingle plant of it; but in those spots where it grows it is always found in great abundance. It flowers in May and June, and its berries are ripe at the end of August. bears transplanting very well, and will foon thrive in its new ground. Some people here, who have gathered the berries, and put them into their kitchen gardens, told me that they lay one or two years in the ground without coming up. The Iroquese, or Five (Six) Nations, call the Ginfeng roots Garangtoging, which it is faid fignifies a child, the roots bearing a faint refemblance to it: but others are of opinion that they mean the thigh and leg by it, and H 2 the

the roots look pretty like it. The French ule this root for curing the althma, as a ftomachic, and to promote fertility in woman. The trade which is carried on with it here is very brifk; for they gather great quantities of it, and fend them to France, from whence they are brought to China, and fold there to great advantage *. It is faid the merchants in France met with amazing fuccels in this trade at the first outset, but by continuing to send the Ginfeng over to China, its price is fallen confiderably there, and confequently in France and Canada; however, they still find their account in it. In the fummer of 1748, a pound of Ginseng was fold for fix Francs, or Livres, at Quebec ; but its common price here is one hundred Sols. or five Livres. During my stay in Canada, all the merchants at Quebec and Montreal, received orders. from their correspondents in France to fend over a quantity of Ginseng, there being an uncommon demand for it this fummer. The roots were accordingly collected in Canada with all poffible diligence; the

* Mr. Obeck feems to doubt whether the Europeans reap any advantages from the Ginjeng trade or not, becaufe the *Chinefe* do not value the Canada roots fo much as those of the *Chinefe-Tartary* and therefore the former bear fearse held the price of the latter. See Officek's Voyage to China, Vol. L. p. 223. F.

Indians

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Indians

Indians especially travelled about the country in order to collect as much as they could together, and to fell it to the merchants at Montreal. The Indians in the neighbourhood of this town were likewife fo much taken up with this business, that the French farmers were not able during that time to hire a fingle Indian, as they commonly do, to help them in the harvest. Many people feared left by continuing for feveral fucceffive years, to collect these plants without leaving one or two in each place to propagate their fpecies, there would foon be very few of them left; which I think is very likely to happen, for by all accounts they formerly grew in abundance round Montreal, but at present there is not a fingle. plant of it to be found, fo effectually have they been rooted out. This obliged the Indians this summer to go far within the English boundaries to collect these roots. After the Indians have fold the fresh roots to the merchants, the latter must take a great deal of pains with them. They are spread on the floor to dry, which commonly requires two months and upwards, according as the feafon is wet or dry. During that time they must be turned once or twice every day, left they should putrify or moul-Ginfeng has never been found far der. H 3 north

north of *Montreal*. The fuperior of the clergy, here and feveral other people, affured me that the *Chinefe* value the *Canada Ginfeng* as much as the *Tartarian**; and that no one ever had been entirely acquainted with the *Chinefe* method of preparing it. However it is thought that amongft other preparations they dip the roots in a decoction of the leaves of *Ginfeng*. The roots prepared by the *Chinefe* are almost transparent, and look like horn in the infide; and the roots which are fit for use, must be heavy and compact in the infide.

THE plant which throughout Canada bears the name of Herba capillaris is likewife one of those with which a great trade is carried on in Canada. The English in their plantations call it Maiden-hair; it grows in all their North-American colonies, which I travelled through, and likewise in the fouthern parts of Canada; but I never found it near Quebec. It grows in the woods in shady places and in a good foil +. Several people in Albany and Canada, affured me that its leaves were very much used in-

* This is directly opposite to Mr. Obeck's affertion. See the preceding page, 114. note +. F.

† It is the Adiantum pedatum of LINN. fp. pl. p. 1557. Cornutus, in his Canadens. plant. biftoria, p. 7. calls it Adiantum Americanum, and gives together with the description, a figure of it, p. 6.

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stead of tea, in confumptions, coughs, and all kinds of pectoral difeases. This they have learnt from the Indians, who have made use of this plant for these purposes fince times immemorial. This American maiden-hair is reckoned preferable in furgery to that which we have in Europe+; and therefore they fend a great quantity of it to France, every year. The price is different, and regulated according to the goodness of the plant, the care in preparing it, and the quantity which is to be got. For if it be brought to Quebec in great abundance, the price falls; and on the contrary it rifes, when the quantity gathered is but fmall. Commonly the price at Quebec is between five and fifteen fols a pound. The Indians went into the woods about this time, and travelled far above Montreal in quest of this plant.

THE Kitchen herbs, fucceed very well here. The white cabbage is very fine, but fometimes fuffers greatly from worms. Onions (Allium cepa) are very much in use here, together with other species of leeks. They likewise plant several species of gourds, melons, fallads, wild succory or wild endive (Cichorium Intybus), several kinds of pease, beans, French beans, carrots, and cucumbers. They have

+ Adiantum Capillus Veneris. True Maiden-hair,

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plenty

plenty of red beets, horferadifhes and common raddifhes, thyme, and marjoram, Turneps are fown in abundance, and used chiefly in winter. Parsneps are sometimes eaten, though not very common. Few people took notice of potatoes; and neither the common (Solanum tuberofum) nor the Bermuda ones (Convolvulus Batatas) were planted in Canada, When the French here are asked why they do not plant potatoes, they answer that they cannot find any relish in them, and they laugh at the English who are fo fond of them. Throughout all North-America the root cabbage* (Braffica gongylodes, Linn.) is unknown to the Swedes, English, Dutch, Irish, Germans, and French, Those who have been employed in fowing and planting kitchen herbs in Canada, and have had fome experience in gardening, told me that they were obliged to fend for fresh feeds from France every year, because they commonly loofe their ftrength here in the third generation, and do not produce fuch plants as would equal the original ones in tafte and goodness.

• This is a kind of cabbage, with large round eatable roots, which grow out above the ground wherein it differa from the turnep-cabage (Braffica Napobraffica) whole root grows in the ground. Both are common in Germany, and the former likewife in Italy.

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se and rjoram, nd used netimes Few neither nor the s) were nch here otatoes, y relifh is who Northlica gon-Sruedes. French. vingand nd have told me br fresh use they e in the ce fuch ones in

d eatable it differs whole root many, and

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THE Europeans have never been able to find any characters, much lefs writings, or books, among the Indians, who have inhabited North-America fince time immemorial, and feem to be all of one nation. and speak the same language. These Indians have therefore lived in the greatest ignorance and darkness, during some centuries, and are totally unacquainted with the state of their country before the arrival of the Europeans, and all their knowledge of it confifts in vague traditions, and mere fables. It is not certain whether any other nations possessed America, before the present Indian inhabitants came into it, or whether any other nations vifited this part of the globe, before Columbus discovered it. It is equally unknown, whether the Christian religion was ever preached here in former times. I conversed with several Jesuits, who undertook long journies in this extensive country, and asked them, whether they had met with any marks that there had formerly been some Christians among the Indians which lived here? but they all answered, they had not found any. The Indians have ever been as ignorant of architecture and manual labour, as of science and writing. In vain does one feek for well built towns and houfes, artificial

tificial fortifications, high towers and pillars, and fuch like, among them, which the old world can shew, from the most antient times. Their dwelling-places are wretched huts of bark, exposed on all fides to wind, and rain. All their mafonry-work confifts in placing a few grey rock-stones on the ground, round their fire-place, to prevent the firebrands from foreading too far in their hut, or rather to mark out the space intended for the fireplace in it. Travellers do not enjoy a tenth part of the pleasure in traversing these countries, which they must receive on their journies through our old countries, where they, almost every day, meet with some veftige or other of antiquity: now an antient celebrated town prefents itfelf to view; here the remains of an old caftle; there a field where, many centuries ago, the most powerful, and the most skilful generals, and the greatest kings, fought a bloody battle; now the native fpot and refidence of fome great or learned man. In fuch places the mind is delighted in various ways, and reprefents all paft occurrences in living colours to itfelf. We can enjoy none of these pleasures in America. The history of the country can be traced no further, than from the arrival of the Europeans; for eve-

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ry thing that happened before that period, is more like a fiction or a dream, than any thing that really happened. In later times there have, however, been found a few marks of antiquity, from which it may be conjectured, that North-America was formerly inhabited by a nation more verfed in fcience, and more civilized, than that which the Europeans found on their arrival here; or that a great military expedition was undertaken to this continent, from thefe known parts of the world.

THIS is confirmed by an account, which I received from Mr. de Verandrier, who has commanded the expedition to the fouthfea in perfon, of which I shall prefently give an account. I have heard it repeated by others, who have been eye-witneffes of every thing that happened on that occa-Some years before I came into Cafion. nada, the then governor-general, Chevalier de Beauharnois, gave Mr. de Verandrier an order to go from Canada, with a number of people, on an expedition across North-America to the fouth-fea, in order to examine, how far those two places are distant from each other, and to find out, what advantages might accrue to Canada, or Louisiana, from a communication with that ocean. They fet out on horfeback from Montreal.

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Montreal, and went as much due west as they could, on account of the lakes, rivers, and mountains, which fell in their way. As they came far into the country, beyond many nations, they fometimes met with large tracts of land, free from wood, but covered with a kind of very tall grafs, for the space of some days journey. Many of thefe fields were every where covered with furrows, as if they had been ploughed and fown formerly. It is to be observed, that the nations, which now inhabit North-America, could not cultivate the land in this manner, because they never made use of horses, oxen, ploughs, or any instruments of hufbandry, nor had they ever feen a plough before the Europeans came to them. In two or three places, at a confiderable distance from each other, our travellers met with impressions of the feet of grown people and children, in a rock; but this feems to have been no more than a Lusus Nature. When they came far to the west, where, to the best of their knowledge, no Frenchmen, or European, had ever been, they found in one place in the woods, and again on a large plain, great pillars of stone, leaning upon each other. The pillars confifted of one fingle stone each, and the Frenchmen could not but fuppofe,

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fuppofe, that they had been erected by human hands. Sometimes they have found fuch stones laid upon one another, and, as it were, formed into a wall. In some of those places where they found such ftones, they could not find any other forts of ftones. They have not been able to difcover any characters, or writing, upon any of these stones, though they have made a very careful search after them. At last they met with a large stone, like a pillar, and in it a smaller stone was fixed, which was covered on both fides with unknown characters. This stone, which was about a foot of French measure in length, and between four or five inches broad, they broke loofe, and carried to Canada with them, from whence it was fent to France, to the fecretary of state, the count of Maurepas. What became of it afterwards is unknown to them, but they think it is yet preferved in his collection. Several of the Jesuits, who have seen and handled this stone in Canada, unanimously affirm, that the letters on it, are the fame with those which in the books, containing accounts of Tataria, are called Tatarian characters *, and that, on comparing both together,

* THIS account feems to be highly probable, for we find in

west as es, ritheir ountry, es met wood, graís, Many overed oughed ferved. Northand in ade use instrur feen a them. derable avellers eet of k; but than a far to know-, had in the great other. ftone bt but ppofe,

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gether, they found them perfectly alike Notwithstanding the questions which the French

in Marco Paolo, that Kublai-Kban, one of the fucceffors of Genglizkban, after the conquest of the fouthern part of China, fent ships out, to conquer the kingdom of Japan, or, as they call it, Nipan-gri, but in a terrible form the whole fleet was caft away, and nothing was ever heard of the men in that fleet. It feems that fome of these ships were caft to the fhores, opposite the great American lakes, between forty and fifty degrees north latitude, and there probably crected these monuments, and were the ancellors of fome nations, who are called Mozemlecks, and have fome degree of civilization. Another part of this fleet, it feems, reached the country opposite Mexico, and there founded the Mexican empire, which, according to their own records, as preferved by the Spaniards, and in their painted annals, in Purchas's Pilgrimage, are very recent; fo that they can fcarcely remember any more than feven princes before Motezuma II. who was reigning when the Spaniards arrived there, 1519, under Fernando Cortez; confequently the first of these princes, supposing each had a reign of thirty-three years and four months, and adding to it the fixteen years of Motezuma, began to reign in the year 1270, when Kublai-Khan, the conqueror of all China and of Japan, was on the throne, and in whofe time happened, I believe, the first abortive expedition to Japan, which I mentioned above, and probably furnified North-America, with civilized inhabitants. There is, if I am not mistaken, a great fimilarity between the figures of the Mexican idols, and those which are usual among the Tartars, who embrace the doctrines and religion of the Dalai-Lama, whose religion Kublai-Kban first introduced among the Monguls, or Moguls. The favage Indians of North-America, it feems, have another origin, and are probably defcended from the Yukagbiri and Tcbucktchi, inhabitants of the most easterly and northerly part of Afia, where, according to the accounts of the Ruffsans, there is but a small traject to America. The ferocity of these nations, fimilar to that of the Americans, their way of painting, their fondness of inebriating liquors, (which

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cceffors of n part of of Japan, e ftorm the r heard of these ships ican lakes, and there e ancellors have fome t, it seems, founded the records, as annals, in t they can ices before ards arrived y the first of -three years ears of Mohen Kublaiwas on the e, the first pned above, vilized inreat fimilaand those ce the docligion Kuor Moguls. have anthe Yukagafterly and accounts of ica. The Americans, ng liquors, (which

French on the fouth-fea expedition afked the people there, concerning the time when, and by whom those pillars were erected? what their traditions and fentiments concerning them were? who had wrote the characters? what was meant by them? what kind of letters they were? in what language they were written? and other circumstances; yet they could never get the least explication, the Indians being as ignorant of all those things, as the French themfelves. All they could fay was, that these stones had been in those places, fince times immemorial. The places where the pillars flood were near nine hundred French miles westward of Montreal. The chief . intention of this journey, viz. to come to the fouth-fea, and to examine its diftance from Canada, was never attained on this occasion. For the people sent out for that purpose, were induced to take part in a war between some of the most distant Indian

(which the Yukagbiri prepare from poilonous and inebriating mufhrooms, bought of the Ruffians) and many other things, fhow them plainly to be of the fame origin. The Efkimaux feem to be the fame nation with the inhabitants of Greenland, the Samoyedes, and Lapponians. South-America, and effectially Peru, is probably peopled from the great unknown fouth continent, which is very near America, civilized, and full of inhabitants of various colours: who therefore might very eafily be caft on the American continent, in boats, or proas. F.

dian nations, in which fome of the French were taken prifoners, and the reft obliged to return. Among the last and most westerly Indians they were with, they heard that the fouth-sea was but a few days journey off; that they (the Indians) often traded with the Spaniards on that coast, and sometimes likewise they went to Hudson's Bay, to trade with the English. Some of these Indians had houses, which were made of earth. Many nations had never seen any Frenchmen; they were commonly clad in skins, but many were quite naked.

ALL those who had made long journies in *Canada* to the fouth, but chiefly weftward, agreed that there were many great plains deftitute of trees, where the land was furrowed, as if it had been ploughed. In what manner this happened, no one knows; for the corn-fields of a great village, or town, of the *Indians*, are fcarce above four or fix of our acres in extent; whereas those furrowed plains fometimes continue for feveral days journey, except now and then a fmall fmooth fpot, and here and there fome rifing grounds.

I COULD not hear of any more veftiges of antiquity in *Canada*, notwithstanding my careful enquiries after them. In the con-

French obliged d moft b, they a few Indians) on that went to Englifb. which ons had re comtre quite

journies y weftny great he land oughed. no one eat vile fcarce extent ; netimes except ot, and veftiges

In the con+ continuation of my journey, for the year 1750*, I shall find an opportunity of speaking of two other remarkable curiosities. Our Swedish Mr. George Westmann, A. M. has clearly, and circumstantially shewn, that our Scandinavians, chiefly the northern ones, long before Columbus's time, have undertaken voyages to North-America; fee his differtation on that subject, which he read at Abo in 1747, for obtaining his degree.

August the 8th, THIS morning I visited the largest nunnery in Quebec. Men are prohibited from vifiting under very heavy punishments; except in some rooms, divided by iron rails, where the men and women, that do not belong to the convent, ftand without, and the nuns within the rails, and converse with each other. But to encrease the many favours which the French nation heaped upon me, as a Swede, the governor-general got the bishop's leave for me to enter the convent, and fee its construction. The bishop alone has the power of granting this favour,' but he does it very fparingly. The royal phyfician, and a furgeon, are however at liberty to go in as often as they think proper. Mr.

* This part has not yet been published.

Vol. III,

Gault

Gaulthier, a man of great knowledge in phylic and botany, was at prefent the royal phyfician here, and accompanied me to the convent. We first faw the hospital, which I shall prefently describe, and then entered the convent, which forms a part of the hospital. It is a great building of stone, three stories high, divided in the infide into long galleries, on both fides of which are cells, halls, and rooms. The cells of the nuns are in the highest story, on both fides of the gallery; they are but fmall; not painted in the infide, but hung with paper pictures of faints, and of our Saviour on the crofs. A bed with curtains, and good bed-clothes, a little narrow desk, and a chair or two, is the whole furniture of a cell. They have no fires in winter, and the nuns are forced to ly in the cold cells. On the gallery is a ftove, which is heated in winter, and as all the rooms are left open, fome warmth can by this means come into them. In the middle ftory are the rooms where they pais the day together. One of these is the room, where they are at work; this is large, finely painted and adorned, and has an iron stove. Here they were at their needle-work, embroidering, gilding, and making flowers of filk, which bear a great fimi-

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fimilarity to the natural ones. In a word, they were all employed in fuch nice works, as were fuitable to ladies of their rank in life. In another hall they affemble to hold their juntos. Another apartment contains those who are indisposed; but such as are more dangeroufly ill, have rooms to themfelves. The novices, and new comers, are taught and inftructed in another hall. Another is deftined for their refectory, or dining-room, in which are tables on all fides; on one fide of it is a fmall desk, on which is laid a French book, concerning the life of those faints who are mentioned in the New Testament. When they dine, all are filent; one of the eldeft gets into the desk, and reads a part of the book before mentioned; and when they are gone through it, they read fome other religious book. During the meal, they fit on that fide of the table, which is turned towards the wall. Almost in every room is a gilt table, on which are placed candles, together with the picture of our Saviour on the crofs, and of fome faints: before these tables they fay their prayers. On one fide is the church, and near it a large gallery, divided from the church by rails, fo that the nuns could only look into it. In this gallery they remain I 2

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main during divine fervice, and the clergyman is in the church, where the nuns reach him his facerdotal clothes through a hole, for they are not allowed to go into the veftry, and to be in the fame room with the prieft. There are still feveral other rooms and halls here, the use of which I do not remember. The loweft ftory contains a kitchen, bake-house, feveral butteries, &c. In the garrets they keep their corn, and dry their linen. In the middle ftory is a balcony on the outfide, almost round the whole building, where the nuns are allowed to take air. The prospect from the convent is very fine on every fide; the river, the fields, and the meadows out of town, appear there to great advantage. On one fide of the convent is a large garden, in which the nuns are at liberty to walk about; it belongs to the convent, and is furrounded with a high There is a quantity of all forts of wall. This convent, they fay, confruits in it. tains about fifty nuns, most of them advanced in years, fcarce any being under forty years of age. At this time there were two young ladies among them, who were instructed in those things, which belong to the knowledge of nuns. They are not allowed to become nuns immediately after

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after their entrance, but must pass through a noviciate of two or three years, in order to try, whether they will be conftant. For during that time it is in their power to leave the convent, if a monastic life does not fuit their inclinations. But as foon as they are received among the nuns, and have made their vows, they are obliged to continue their whole life in it : if they appear willing to change their mode of life, they are locked up in a room, from whence they can never get out. The nuns of this convent never go further from it, than to the hospital, which lies near it, and even makes a part of it. They go there to attend the fick, and to take care of them. I was told by feveral people here, fome of which were ladies, that none of the nuns went into a convent, till fhe had attained to an age in which the had fmall hopes of ever getting a husband. The nuns of all the three convents in Quebec looked very old, by which it feems, that there is fome foundation for this account. All agree here, that the men are much lefs numerous in Canada, than the women; for the men die on their voyages; many go to the West-Indies, and either settle, or die, there; many are killed in battles, &c. Hence there

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there feems to be a necessity of some women going into convents.

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THE hospital, as I have before mentioned, makes a part of the convent. It confifts of two large halls, and fome rooms near the apothecary's shop. In the halls are two rows of beds on each fide, within each other. The beds next to the wall are furnished with curtains, the outward ones are without them. In each bed are fine bed-clothes, with clean double theets. As foon'as a fick perfon has left his bed, it is made again, in order to keep the hospital in cleanliness, and order. The beds are two or three yards diftant, and near each is a fmall table. There are good iron ftoves, and fine windows in this hall. The nuns attend the fick people, and bring them meat, and other necessaries. Besides them there are fome men who attend, and a The royal physician is likewife Jurgeon. obliged to come hither, once or twice every day, look after every thing, and give prefcriptions. They commonly receive fick foldiers into this hospital, who are very numerous in July and August, when the king's ships arrive, and in time of war. But at other times, when no great number of foldiers are fick, other poor people can take

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tionconooms halls ithin ll are ones fine As it is **ípital** s are cach iron The them them nd a ewife every prefick very the war. nber can take

take their places, as far as the number of empty beds will reach. The king finds every thing here that is requifite for the fick perfons, viz. provisions, medicines, fewel, &c. Those who are very ill, are put into separate rooms, in order that the noise in the great hall may not be troublefome to them.

Quebec.

THE civility of the inhabitants here is more refined than that of the Dutch and English, in the settlements belonging to Great Britain; but the latter, on the other hand, do not idle their time away in dreffing, as the French do here. The ladies, especially, dress and powder their hair every day, and put their locks in papers every night; which idle cuftom was not introduced in the English settlements. The gentlemen wear generally their own hair; but fome have wigs. People of rank are ufed to wear laced cloaths, and all the crown-officers wear fwords. All the gentlemen, even those of rank, the governorgeneral excepted, when they go into town on a day that looks likely for rain, carry their cloaks on their left arm. Acquaintances of either fex, who have not feen each other for fome time, on meeting again falute with mutual kiffes.

THE plants which I have collected in I 4 Ca-

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Canada, and which I have partly described, I pais over as I have done before, that I may not tire the patience of my readers by a tedious enumeration. If I should crowd my journal with my daily botanical obfervations, and descriptions of animals; birds, infects, ores, and the like curiofities, it would be fwelled to fix or ten times its present fize *. I therefore spare all these things, confifting chiefly of dry descriptions of natural curiofitics, for a Flora Canadensis, and other such like things. The fame I must fay in regard to the observations I have made in physic. I have carefully collected all I could on this journey, concerning the medicinal use of the American plants, and the fimples, fome of which they reckon infallible +, in more than one place. But physic not being my principal study (though from my youth I always was fond of it) I may probably have omitted remarkable circumstances in my accounts of medicines and fimples, though one cannot be too accurate in fuch cafes. The phyficians would therefore reap little or no benefit from fuch remarks, or at

• What bookfeller in Sweden could undertake to print fuch a work at his own expence, without lofing confiderably by it?

† Remedes Souverains.

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at least they would not find them as they ought to be. This will excuse me for avoiding, as much as possible, to mention fuch things as belong to physic, and are above my knowledge. Concerning the Canada plants, I can here add, that the further you go northward, the more you find the plants are the fame with the Swedifb ones: thus, on the north fide of Quebec, a fourth part of the plants, if not more, are the fame with the fpontaneous plants in Sweden. A few plants and trees, which have a particular quality, or are applied to some particular use, shall, however, be mentioned in a few words, in the sequel.

THE Rein deer Moss (Lichen rangiferinus) grows plentiful in the woods round Quebec. M. Gaulthier, and feveral other gentlemen, told me, that the French, on their long journies through the woods, on account of their fur trade with the Indians, fometimes boil this moss, and drink the decoction, for want of better food, when their provisions are at an end; and they fay it is very nutritive. Several Frenchmen, who have been in the Terra Labrador, where there are many rein-deer (which the French and Indians here call Cariboux) related, that all the land there is in most places

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places covered with this rein-deer mofs, fo that the ground looks as white as fnow.

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August the 10th. This day I dined with the Jesuits. A few days before, I paid my vifit to them; and the next day their prefident, and another father Jesuit, called on me, to invite me to dine with them today. I attended divine fervice in their church, which is a part of their house. It is very fine within, though it has no feats; for every one is obliged to kneel down during the fervice. Above the church is a fmall steeple, with a clock. The building the Jefuits live in is magnificently built, and looks exceeding fine, both without and within; which gives it a fimilarity to a fine palace. It confifts of stone, is three stories high, exclusive of the garret, covered with flates, and built in a square form, like the new palace at Stockholm, including a large court. Its fize is fuch, that three hundred families would find room enough in it; though at prefent there were not above twenty Jesuits in it. Sometimes there is a much greater number of them, especially when those return, who have been fent as miffionaries into the country. There is a long walk along all the fides of the fquare, in every ftory, on both fides of which are either cells, halls, 10

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with paid their alled 1 totheir It eats; duis a lding built, t and to a three , coform, cludthat room were omeer of who the pg all v, on halls, or or other apartments for the friars; and likewise their library, apothecary-shop, &c. Every thing is very well regulated, and the Jesuits are very well accommodated here. On the outfide is their college, which is on two fides furrounded with great orchards and kitchen-gardens, in which they have fine walks. A part of the trees here, are the remains of the forest which stood here when the French began to build this town. They have befides planted a number of fruit-trees; and the garden is stocked with all forts of plants for the use of the kitchen. The Jesuits dine together in a great hall. There are tables placed all round it along the walls, and feats between the tables and the walls, but not on the other fide. Near one wall is a pulpit, upon which one of the fathers gets during the meal, in order to read fome religious book; but this day it was omitted, all the time being employed in conversation. They dine very well, and their diffes are as numerous as at the greatest feasts. In this spacious building you do not see a single woman; all are fathers, or brothers; the latter of which are young men, brought up to be Jesuits. They prepare the meal, and bring it upon table; for the common feryants are not admitted.

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BESIDES the bishop, there are three kinds of clergymen in Canada; viz. Jesuits, priefts, and recollets. The Jesuits are, without doubt, the most confiderable; therefore they commonly fay here, by way of proverb, that a hatchet is fufficient to. sketch out a recollet; a priest cannot be made without a chiffel; but a Jesuit absolutely requires the pencil *; to fhew how much one furpasses the others. The Jefuits are commonly very learned, studious, and are very civil and agreeable in company. In their whole deportment there is fomething pleafing; it is no wonder therefore that they captivate the minds of peo-They feldom speak of religious matple. ters; and if it happens, they generally avoid difputes. They are very ready to do any one a fervice; and when they fee that their affistance is wanted, they hardly give one time to speak of it, falling to work immediately, to bring about what is required of them. Their conversation is very entertaining and learned, fo that one cannot be tired of their company. Among all the Jefuits I have converfed with in Canada, I have not found one who was not poffeffed of these qualities in a very eminent

* Pour faire un recolet il faut une bacbette, pour un prêtre un cifeau, mais pour un Jesuite il faut un pinceau.

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They have large possessions nent degree. in this country, which the French king gave them. At Montreal they have likewife a fine church, and a little neat house. with a small but pretty garden within. They do not care to become preachers to a congregation in the town and country; but leave these places, together with the emoluments arising from them, to the priefts. All their business here is to convert the heathens; and with that view their miffionaries are fcattered over every part of this country. Near every town and village, peopled by converted Indians, are one or two Jesuits, who take great care that they may not return to paganism, but live as Christians ought to do. Thus there are Jefuits with the converted Indians in Tadouffac, Lorette, Becancourt, St. François, Saut St. Louis, and all over Canada. There are likewise Jesuit missionaries with those who are not converted; fo that there is commonly a Jefuit in every village belonging to the Indians, whom he endeavours on all occasions to convert. In winter he goes on their great hunts, where he is frequently obliged to fuffer all imaginable inconveniencies ; fuch as walking in the fnow all day; lying in the open air all winter; being out both in good and bad weather, the

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the Indians not regarding any kind of weather; lying in the Indian huts, which often fwarm with fleas and other vermin, &c. The Jesuits undergo all these hardships for the fake of converting the Indians, and likewife for political reafons. The Jesuits are of great use to their king; for they are frequently able to perfuade the Indians to break their treaty with the Englifb, to make war upon them, to bring their furs to the French, and not to permit the English to come amongst them. But there is fome danger attending these attempts; for when the Indians are in liquor, they fometimes kill the miffionaries who live with them; calling them fpies, or excuting themselves by faying that the brandy had killed them. These are accordingly the chief occupations of the Jefuits here. They do not go to vifit the fick in the town, they do not hear the confestions, and attend at no funerals. I have never feen them go in proceffions in remembrance of the Virgin Mary, and other faints. They feldom go into a house in order to get meat; and though they be invited, they do not like to ftay, except they be on a journey. Every body fees, that they are, as it were, felected from the other people, on account of their fuperior ge-

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weah ofrmin, harddians, The ;; for e the Engbring permit But fe atin lionaries fpies, at the re ache leit the e con-I have in reother hfe in be int they , that h the perior ge-

genius and qualities. They are here reckoned a most cunning fet of people, who. generally fucceed in their undertakings, and furpass all others in acuteness of understanding. I have therefore feveral times observed that they have enemies in Canada. They never receive any others into their fociety, but perfons of very promifing parts; fo that there are no blockheads among them. On the other hand, the priefts receive the beft kind of people among their order they can meet with; and in the choice of monks, they are yet lefs careful. The Jesuits who live here, are all come from France; and many of them return thither again, after a ftay of a few years here. Some (five or fix of which are yet alive) who were born in Canada, went over to France, and were received among the Jefuits there ; but none of them ever came back to Canada. I know not what political reason hindered them. During my ftay in Quebec, one of the priefts, with the bishop's leave, gave up his priesthood, and became a Jesuit. The other priefts were very ill pleafed with this, becaufe it feemed as if he looked upon their condition as too mean for himfelf. Thofe congregations in the country that pay rents to the Jesuits, have, however, divine fervice

vice performed by priefts, who are appointed by the bithop; and the land-rent only belongs to the Jesuits. Neither the priefts nor the Jesuits carry on any trade with furs and skins, leaving that entirely to the merchants.

THIS afternoon I visited the building called the Seminary, where all the priefts live in common. They have a great house, built of stone, with walks in it, and rooms on each fide. It is several stories high, and close to it is a fine garden, full of all forts of fruit-trees and pot-herbs, and divided by walks. The prospect from hence is the finest in Quebec. The priests of the feminary are not much inferior to the Jefuits in civility; and therefore I spent my time very agreeably in their company.

THE priefts are the fecond and most numerous class of the clergy in this country; for most of the churches, both in towns and villages (the Indian converts excepted) are ferved by priefts. A few of them are likewife miffionaries. In Canada are two feminaries; one in Quebec, the other in Montreal. The priefts of the feminary in Montreal are of the order of St. Sulpitius, and fupply only the congregation on the ifle of Montreal, and the town of the fame name. At all the other churches in Canada,

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uilding priefts house, l rooms s high, ll of all and dim hence s of the the Jepent my ny. nost nucountry; n towns xcepted) hem are are two other in inary in Sulpitius, on the the fame s in Canada, hada, the priests belonging to the Quebec feminary officiate. The former, or those of the order of St. Sulpitius, all come from France; and I was affured that they never fuffer a native of Ganada to come among them. In the feminary at Quebec, the natives of Canada make the greater part. In order to fit the children of this country for orders, there are schools at Quebec and St: Yoachim; where the youths are taught Latin, and instructed in the knowledge of those things and sciences, which have a more immediate connexion with the bufiness they are intended for. However, they are not very nice in their choice; and people of a middling capacity are often received among them. They do not feem to have made great progress in Latin; for notwithstanding the service is read in that language, and they read their Latin Breviary, and other books, every day, yet most of them found it very difficult to speak it. All the priefts in the Quebec feminary are confectated by the bishop. Both the feminaries have got great revenues from the king; that in Quebec has above thirty thousand livres. All the country on the west fide of the river St. Lawrence, from the town of Quebec to bay St. Paul, belongs to this feminary, belides their other VOL. III. K D0[+

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possessions in the country. They leafe the land to the fettlers for a certain rent, which, if it be annually paid according to their agreement, the children or heirs of the fettlers may remain in an undisturbed poffestion of the lands. A piece of land, three arpens * broad, and thirty, forty, or fifty arpens long, pays annually an ecu +. and a couple of chickens, or fome other additional trifle. In fuch places as have convenient water-falls, they have built water-mills, or faw-mills, from which they annually get confiderable fums. The feminary of Montreal poffestes the whole ground on which that town stands, together with the whole ile of Montreal. I have been affured, that the ground-rent of the town and ille is computed at feventy thoufand livres; befides what they get for faying maffes, baptizing, holding confessions, attending at marriages and funerals, &c. All the revenues of ground-rent belong to the feminaries alone, and the priefts in the country have no fhare in them. But as the feminary in Montreal, confifting only of fixteen priefts, has greater revenues than it can expend, a large fum of money is annually fent over to France, to the chief fe-

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· A French acre.

+ A French coin, value about a crown Englifb.

feminary there. The land-rents belonging to the Quebec seminary are employed for the use of the priests in it, and for the maintenance of a number of young people, who are brought up to take orders. The priefts who live in the country parifhes, get the tythe from their congregation, together with the perquifites on vifiting the fick, &cc. In fmall congregations, the king gives the priefts an additional fum. When a prieft in the country grows old, and has done good fervices, he is fometimes allowed to come into the feminary in town. The feminaries are allowed to place the priefts on their own eftates; but the other places are in the gift of the bishop.

THE recolets are the third class of clergymen in Canada. They have a fine large dwelling house here, and a fine church, where they officiate. Near it is a large and fine garden, which they cultivate with great application. In Montreal, and Trois Rivieres, they are lodged almost in the fame manner as here. They do not endeavour to choose cunning fellows amongst them, but take all they can get. They do not torment their brains with much learning; and I have been affured, that after they have put on their monastic habit, K 2 they

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they do not fludy to increase their knowledge, but forget even what little they knew before. At night they generally ly on mats, or fome other hard matraffes; however, I have fometimes feen good beds in the cells of fome of them. They have no possessions here, having made vows of poverty, and live chiefly on the alms which people give them. To this purpofe, the young monks, or brothers, go into the houfes with a bag, and beg what they want. They have no congregations in the country, but fometimes they go among the Indians as millionaries. In each fort, which contains forty men, the king keeps one of these monks, instead of a prieft, who officiates there. The king gives him lodging, provisions, fervants, and all he wants; befides two hundred livres a year. Half of it he fends to the community he belongs to; the other half he referves for his own use. On board the king's ships are generally no other priests than these friars, who are therefore looked upon as people belonging to the king. When one of the chief priefts * in the country dies, and his place cannot immediately be filled up, they fend one of these friars there, to officiate whilft the place is

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nowthey lly ly affes; beds They VOW8 alms purrs, go what ations cy go n each e king of a king ts, and ivres a mmuhe red the priefts looked king. in the immef thefe lace is wacant. Part of these monks come over from France, and part are natives of Canada. There are no other monks in Canada befides these, except now and then one of the order of St. Austin or some other, who comes with one of the king's ships, but goes off with it again.

August the 11th. THIS morning I took a walk out of town, with the royal phyfician M. Gaulthier, in order to collect plants, and to fee a nunnery at fome diftance from Quebec. This monastery which is built very magnificently of stone, lies in a pleafant spot, surrounded with corn-fields, meadows, and woods, from whence Quebec and the river St. Lawrence may be feen; a hospital for poor old people, cripples, &c. makes part of the monastery, and is divided into two halls, one for men, the other for The nuns attend both fexes, women. with this difference however, that they only prepare the meal for the men and bring it in to them, give them phyfick, and take the cloth away when they have eaten, leaving the rest for male servants. But in the hall where the women are, they do all the work that is to be done. The regulation in the hospital was the same as in that at Quebec. To shew me a particular favour, the bishop, at the defire of the Marquis K 3 la

la Galiffonniere, governor-general of Canada, granted me leave to fee this nunnery likewife, where no man is allowed to enter, without his leave, which is an honour he feldom confers on any body. The abbefs led me and M. Gaulthier through all the apartments, accompanied by a great number of nuns. Most of the nuns here are of noble families and one was the daughter of a governor. Many of them are old, but there are likewise some very young ones among them, who looked very well. They feemed all to be more polite than those in the Their rooms are the fame other nunnery. as in the last place, except some additional furniture in their cells; the beds are hung with blue curtains; there are a couple of fmall bureaux, a table between them and fome pictures on the walls. There are however no stoves in any cell. But those halls and rooms, in which they are affembled together, and in which the fick ones ly, are supplied with an iron stove. The number of nuns is indeterminate here, and I faw a great number of them. Here are likewite fome probationers preparing for their reception among the nuns. A number of little girls are fent hither by their parents, to be instructed by the nuns in the principles of the christian religion, and in all

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all forts of ladies work. The convent at a diftance looks like a palace, and, as I am told, was founded by a bishop, who they fay is buried in a part of the church.

WE botanized till dinner-time in the neighbouring meadows, and then returned to the convent to dine with a venerable old father recolet, who officiated here as a prieft. The diffues were all prepared by nuns, and as numerous and various as on the tables of great men. There were likewife feveral forts of wine, and many preferves. The revenues of this monaftery are faid to be confiderable. At the top of the building is a fmall fteeple with a bell. Confidering the large tracts of land which the king has given in *Canada* to convents, *Jefuits*, priefts, and feveral families of rank, it feems he has very little left for himfelf.

OUR common rasp-berries, are so plentiful here on the hills, near corn-fields, rivers and brooks, that the branches look quite red on account of the number of berries on them. They are ripe about this time, and eaten as a desert after dinner, both fresh and preferved.

THE Mountain Ash, or Sorb-tree * is pretty common in the woods hereabouts.

> • Sorbus aucuparia. K 4

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THEY reckon the north-east wind the most piercing of all, here. Many of the best people here, assured me, that this wind when it is very violent in winter, pierces through walls of a moderate thickness, so that the whole wall on the infide of the house is covered with snow, or a thick hoar froft; and that a candle placed near. a thinner wall is almost blown out by the wind which continually comes through. This wind damages the houses which are built of ftone, and forces the owners to repair them very frequently on the north-The north and north-east winds east fide. are likewise reckoned very cold here. In fummer the north wind is generally attended with rain.

THE difference of climate between Quebec and Montreal is on all hands allowed to be very great. The wind and weather of Montreal are often entirely different from what they are at Quebec. The winter there is not near fo cold as in the laft place. Several forts of fine pears will grow near Montreal; but are far from fucceeding at Quebec, where the froft frequently kills them. Quebec has generally more rainy weather, fpring begins later, and winter fooner than at Montreal, where all forts of fruits ripen a week or two earlier than at Quebec. August

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August the 12th. THIS afternoon I and my fervant went out of town, to ftay in the country for a couple of days that I might have more leifure to examine the plants which grow in the woods here, and the ftate of the country. In order to proceed the better, the governor-general had fent for an Indian from Lorette to shew us the way, and teach us what use they make of the spontaneous plants hereabouts. This Indian was an Englishman by birth, taken by the Indians thirty years ago, when he was a boy, and adopted by them, according to their cuftom, inftead of a relation of theirs killed by the enemy, Since that time he conftantly flayed with them, became a Roman Catholic and married an Indian woman: he dreffes like an Indian, speaks English and French, and many of the Indian languages. In the wars between the French and English, in this country, the French Indians have made many prisoners of both fexes in the English plantations, adopted them afterwards, and they married with people of the Indian nations. From hence the Indian blood in Canada is very much mixed with European blood, and a great part of the Indians now living, owe their origin to Europe. It is likewise remarkable, that a great part of the people they had taken

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taken during the war and incorporated with their nations, especially the young people, did not choose to return to their native country, though their parents and nearest relations came to them and endeavoured to perfuade them to it, and though it was in their power to do it. The licentious life led by the Indians, pleased them better than that of their European relations; they dreffed like the Indians, and regulated all their affairs in their way. It is therefore difficult to diffinguish them, except by their colour, which is fomewhat whiter than that of the Indians. There are likewife examples of some Frenchmen going amongst the Indians and following their way of life. There is on the contrary fcarce one inftance of an Indian's adopting the European cuftoms; but those who were taken prisoners in the war, have always endeavoured to come to their own people again, even after feveral years of captivity, and though they enjoyed all the privileges, that were ever poffeffed by the Europeans in America.

THE lands, which we paffed over, were every where laid out into corn-fields, meadows, or pastures. Almost all round us the prospect presented to our view farms and farm-house, and excellent fields and meadows. Near the town the land is pretty

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Between Quebec and Lorette. 155

pretty flat, and interfected now and then by a clear rivulet. The roads are very good, broad, and lined with ditches on each fide, in low grounds. Further from the town, the land rifes higher and higher, and confifts as it were of terraces, one This rifing ground is, above another. however, pretty smooth, chiefly without stones, and covered with rich mould. Under that is the black lime-flate, which is fo common hereabouts, and is divided into fmall shivers, and corroded by the air. Some of the strata were horizontal, others perpendicular; I have likewife found fuch perpendicular strata of lime-states in other places, in the neighbourhood of Quebec. All the hills are cultivated; and fome are adorned with fine churches, houfes, and corn-fields. The meadows are commonly in the vallies, though fome were likewife on eminencies. Soon after we had a fine prospect from one of these hills. Quebec appeared very plain to the eastward, and the river St. Lawrence could likewife be feen ; further distant, on the south-east fide of that river, appears a long chain of high mountains, running generally parallel to it, though many miles diftant from it. To the west again, at some distance from the rifing lands where we were, the hills changed

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ed into a long chain of very high mountains, lying very clofe to each other, and running parallel likewife to the river, that is nearly from fouth to north. Thefe high mountains confift of a grey rock-ftone, composed of several kinds of stone, which I shall mention in the sequel. These mountains seem to prove, that the limeflates are of as antient a date as the grey rock-stone, and not formed in later times; for the amazing large grey rocks ly on the top of the mountains, which confist of black lime-flates.

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THE Ligh meadows in Canada are excellent, and by far preferable to the meadows round Philadelphia, and in the other English colonies. The further I advanced northward here, the finer were the meadows, and the turf upon them was better Almost all the grass here is of and cloter. two kinds, viz. a species of the narrow leaved meadow grafs *; for its fpikes + contain either three or four flowers; which are fo exceedingly fmall, that the plant might eafily be taken for a bent grass; and its feeds have feveral finall downy hairs at the bottom. The other plant, which grows

* Pea angustifelia. Linn.

+ Spiculæ tri vel quadri-floræ minimæ; femina basi pubeicentia.

1 Agrofis. Linn.

Between Quebec and Lorette. 157

grow: in the meadows, is the white clover *. These two plants form the hay in the meadows; they stand close and thick together, and the meadow grass (poa) is pretty tall, but has very thin stalks. At the root of the meadow grass, the ground was quite covered with clover, so that one cannot wish for finer meadows, than are found here. Almost all the meadows have been formerly corn-fields, as appears from the furrows on the ground, which still remained. They can be mown but once every summer, as spring commences very late.

THEY were now busied with making hay, and getting it in, and I was told, they had begun about a week ago. They have hay-ftacks near most of their meadows, and on the wet ones, they make use of conic hay-ftacks. Their meadows are commonly without enclosures, the cattle being in the pastures on the other fide of the woods, and having cowherds to take care of them where they are necessary.

THE corn-fields are pretty large. I faw no drains any where, though they feemed to be wanting in fome places. They are divided into ridges, of the breadth of two

* Trifolium repens. Linn. Trifolium pratense album. C. B.

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or three yards broad, between the furrows. The perpendicular height of the middle of the ridge, from the level to the ground, is near one foot. All their corn is fummercorn; for as the cold in winter destroys the corn which lies in the ground, they never fow in autumn. I found white wheat most commonly in the fields. They have likewise large fields with pease, oats, in fome places fummer-rye, and now and then barley. Near almost every farm I met with cabbages, pumpions, and melons. The fields are not always fown, but ly fal-The fallow-fields low every two years. are not ploughed in fummer, fo the weeds grow without reftraint in them, and the cattle are allowed to go on them all fummer *.

THE houfes in the country are built promifcuoufly of ftone, or wood. To those of ftone they do not employ bricks, as there is not yet any confiderable quantity of bricks made here. They therefore take what ftones they can find in the neighbourhood, especially the black linetes. These are quite compact when broke.

* Here follows, in the original, an account of the enclosures made use of near Quebec, which is intended only for the Swedes, but not for a nation that has made such progress in agriculture and husbandry, as the English. F.

Between Quebec and Lorette. 159

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broke, but fhiver when exposed to the air ; however, this is of little confequence, as the stones stick fast in the wall, and do not fall afunder. For want of it, they fometimes make their buildings of limestone, or fand-stone, and sometimes of grey rock-stone. The walls of fuch houses are commonly two foot thick, and feldom thinner. The people here can have lime every where in this neighbourhood. The greater part of the houses in the country, are built of wood, and fometimes plaistered over on the outfide. The chinks in the walls are filled with clay, inftead of mols. The houses are feldom above one story high. In every room is either a chimney or flove, or both together. The floves have the form of an oblong fquare; fome are entirely of iron, about two feet and a half long, one foot and a half, or two feet, high, and near a foot and a half broad ; these iron stoves are all cast at the iron-works at Trois Rivieres. Some are made of bricks, or stones, not much larger than the iron floves, but covered at top with an iron plate. The imoke from the floves is conveyed up the chimney, by an iron pipe. In fummer the ftoves are removed.

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THIS evening we arrived at Lorette, where we lodged with the Jesuits.

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August the 13th. In the morning we continued our journey through the woods to the high mountains, in order to fee what fearce plants and curiofities we could get there. The ground was flat at first, and covered with a thick wood all round, except in marshy places. Near half the plants, which are to be met with here, grow in the woods and morasses of Sweden.

WE faw wild Cherry-trees here, of two kinds, which are probably mere varieties, though they differ in feveral refpects. Both are pretty common in *Canada*, and both have red berries, One kind, which is called *Cerifier* by the *French*, taftes like our *Alpine* cherries, and their acid contracts the mouth, and checks. The berries of the other fort have an agreeable fournefs, and a pleafant tafte *.

THE three-leaved Hellebore + grows in great plenty in the woods, and in many places it covers the ground by itfelf. However, it commonly chooses mostly places, that

• The kind called Cerifier by the French, I described thus in my journal : Cerasus foliis ovatis serratis, serraturis profundis fere subulatis, sructu racemoso. The other thus s Cerasus foliis lanceolatis, crenato-ferratis, acutis, fructu fere folitario.

+ Helleborus trifolius.

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ows in many Howplaces, that

described ferraturis her thus s f. uctu fere that are not very wet; and the wood-forrel*, with the Mountain Enchanter's Night*fbade*+, are its companions. Its feeds were not yet ripe, and most of the stalks had no feeds at all. This plant is called *Tiffavoyanne jaune* by the French, all over Canada. Its leaves and stalks are used by the Indians, for giving a fine yellow colour to feveral kinds of work, which they make of prepared skins. The French, who have learnt this from them, dye wool and other things yellow with this plant.

WE climbed with a great deal of difficulty to the top of one of the higheft mountains here, and I was vexed to find nothing at its fummit, but what I had feen in other parts of *Canada* before. We had not even the pleafure of a profpect, becaufe the trees, with which the mountain is covered, obftructed it. The trees that grow here are a kind of hornbeam, or *Carpinus Oftrya*, Linn. the *American* elm, the red maple, the fugar-maple, that kind of maple which cures fcorched wounds (which I have not yet defcribed), the beech, the common birch-tree, the fugar-birch ‡, the forb-tree, the *Canada*

* Oxalis Acetofilla, Linn. † Circæa alpina, Linn. ‡ Betula nigra, Linn. VOL. III.

pine,

pine, called *Peruffe*, the mealy-tree with dentated leaves *, the afh, the cherry-tree, (*Cerifier*) just before described, and the berry-bearing yew.

THE Gnats in this wood were more numerous than we could have wifhed. Their bite caufed a bliftering of the skin s and the Jesuits at Lorette said, the best preservative against their attacks is to rub the face, and naked parts of the body, with grease. Cold water they reckon the best remedy against the bite, when the wounded places are washed with it, immediately after.

At night we returned to Lorette, having accurately examined the plants of note we met with to-day.

August the 14th. Lorette is a village, three French miles to the westward of Quebec. Inhabited chiefly by Indians of the Huron nation, converted to the Roman catholic religion. The village lies near a little river, which falls over a rock there, with a great noise, and turns a faw-mill, and a flour-mill. When the Jesuit, who is now with them, arrived among them, they lived in their usual huts, which are made like those of the Laplanders. They

· Viburnum dentatum, Linn.

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have fince laid afide this cuftom, and built all their houses after the French fashion. In each house are two rooms, viz. their bed-room, and the kitchen on the outfide before it. In the room is a fmall oven of stone, covered at top with an iron plate. Their beds are near the wall, and they put no other clothes on them, than those which they are dreffed in. Their other furniture and utenfils, look equally wretched. Here is a fine little church, with a steeple and bell. The steeple is raifed pretty high, and covered with white tin plates. They pretend, that there is some fimilarity between this church in its figure and dispofition, and the Santa Cafa, at Loretto in Italy, from whence this village has got its Close to the church is a house name. built of stone, for the clergymen, who are two Jesuits, that constantly live here. The divine fervice is as regularly attended here, as in any other Roman catholic church; and I was pleafed with feeing the alacrity of the Indians, especially of the women, and hearing their good voices, when they fing all forts of hymns in their own language. The Indians drefs chiefly like the other adjacent Indian nations; the men, however, like to wear waiftcoats, or jackets, like the French. The women keep exactly L 2 - · to

to the Indian drefs. It is certain, that thefe Indians and their anceftors, long fince, on being converted to the Chriftian religion, have made a vow to God, never to drink ftrong liquors. This vow they have kept pretty inviolable hitherto, fo that one feldom fees one of them drunk, though brandy and other ftrong liquors are goods, which other Indians would fooner be killed for, than part with them.

THESE Indians have made the French their patterns in feveral things, befides the houfes. They all plant maize; and fome have fmall fields of wheat, and rye. Many of them keep cows. They plant our common fun-flower* in their maize-fields, and mix the feeds of it into their fagamite, or maize-foup. The maize, which they plant here, is of the fmall fort, which ripens fooner than the other : its grains are fmaller, but give more and better flour in proportion. It commonly ripens here at the middle, fometimes however, at the end of August.

THE Swedish winter-wheat, and winterrye, has been tried in Canada, to fee how well it would fucceed; for they employ nothing but fummer-corn here, it having

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been found, that the French wheat and rye dies here in winter, if it be fown in autumn. Dr. Sarrazin has therefore (as I was told by the eldeft of the two Jefuits here) got a fmall quantity of wheat and rye, of the winter-corn fort from Sweden. It was fown in autumn, not hurt by the winter, and bore fine corn. The ears were not fo large as those of the Canada corn, but weighed near twice as much, and gave a greater quantity of finer flour, than that fummer-corn. Nobody could tell me, why the experiments have not been continued. They cannot, I am told, bake such white bread here, of the summer-corn, as they can in France, of their winter-wheat. Many people have affured me, that all the fummer-corn, now employed here, came from Sweden, or Norway : for the French, on their arrival, found the winters in Canada too fevere for the French winter-corn, and their fummercorn did not always ripen, on account of the shortness of summer. Therefore they began to look upon Canada, as little better than an useless country, where nobody could live; till they fell upon the expedient of getting their fummer-corn from the most northern parts of Europe, which has fucceeded very well.

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THIS day I returned to Quebec, making botanical observations by the way.

August the 1 sth. The new governorgeneral of all Canada, the marquis de la Jonquiere, arrived last night in the riverbefore Quebec; but it being late, he referved his public entrance for to-day. He had left France on the fecond of June, but could not reach Quebec before this time, on account of the difficulty which great ships find in passing the fands in the river St. Lawrence. The thips cannot venture to go up, without a fair wind, being forced to run in many bendings, and frequently in a very narrow channel. To-day was another great feaft, on account of the Afcenfion of the Virgin Mary, which is very highly eelebrated in Roman catholic countries. This day was accordingly doubly remarkable, both on account of the holiday, and of the arrival of the new governor-general, who is always received with great pomp, as he represents a vice-roy here.

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Abou't eight o'clock the chief people in town allembled at the houfe of Mr. de Vaudreuil, who had lately been nominated governor of Trois Rivieres, and lived in the lower town, and whofe father had likewife been governor-general of Canada. Thither came likewife the marquis de la Galiffonniere,

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Galiffonniere, who had till now been governor-general, and was to fail for France, with the first opportunity. He was accompanied by all the people belonging to the government. I was likewife invited to fee this festivity. At half an hour after eight the new governor-general went from the thip into a barge, covered with red cloth, upon which a fignal with cannons was given from the ramparts, for all the bells in the town to be fet a-ringing. All the people of distinction went down to the shore to falute the governor, who, on alighting from the barge, was received by the marquis la Galiffonniere. After they had faluted each other, the commandant of the town addressed the new governor-general in a very elegant speech, which he answered very concisely; after which all the cannon on the ramparts gave a general falute. The whole freet, up to the cathedral, was lined with men in arms, chiefly drawn out from among the burgheffes. The governor-general then walked towards the cathedral, dreffed in a fuit of red, with abundance of gold lace. His fervants went before him in green, carrying fire-arms on their thoulders. On his arrival at the cathedral, he was received by the bishop of Canada, and the whole clergy affembled. The bishop was arrayed L 4 in

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in his pontifical robes, and had a long gilt tiara on his head, and a great crozier of maffy filver in his hand. After the bishop had addreffed a fhort fpeech to the governor-general, a priest brought a filver crucifix on a long flick, (two priefts with lighted tapers in their hands, going on each fide of it) to be kiffed by the governor. The bishop and the priests then went through the long walk, up to the choir. The fervants of the governor-general followed with their hats on, and arms on their shoulders. At last came the governor-general and his fuite, and after them a croud of people. At the beginning of the choir the governor-general, and the general de la Galissonniere, stopt before a chair covered with red cloth, and flood there during the whole time of the celebration of the mais, which was celebrated by the bishop himself. From the church he went to the palace, when the gentlemen of note in the town, afterwards went to pay their respects to him. The religious of the different orders, with their respective superiors, likewife came to him, to teftify their joy on account of his happy arrival. Among the numbers that came to visit him, none staid to dine, but those that were invited beforehand, among which I had the honour

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nour to be. The entertainment lasted very long, and was as elegant as the occasion required.

THE governor-general, marquis de la Jonquiere, was very tall, and at that time fomething above fixty years old. He had fought a desperate naval battle with the English in the last war, but had been obliged to surrender, the English being, as it was told, vastly superior in the number of ships and men. On this occasion he was wounded by a ball, which entered one side of his schoulder, and came out at the other. He was very complaisant, but knew how to preferve his dignity, when he distributed favours.

MANY of the gentlemen, prefent at this entertainment, afferted that the following expedient had been fuccefsfully employed to keep wine, beer, or water, cool during fummer. The wine, or other liquor, is bottled; the bottles are well corked, hung up into the air, and wrapped in wet clouts. This cools the wine in the bottles, notwithftanding it was quite warm before. After a little while the clouts are again made wet, with the coldeft water that is to be had, and this is always continued. The wine, or other liquor, in the bottles is then always colder, than the water with which

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which the clouts are made wet. And though the bottles should be hung up in the sunshine, the above way of proceeding will always have the same effect *.

August the 16th. THE occidental Arbor vitæ +, is a tree which grows very plentiful in Canada, but not much further fouth. The most foutherly place I have feen it in, is a place a little on the fouth fide of Saratoga, in the province of New-York, and likewise near Caffes, in the same province, which places are in forty-two degrees and ten minutes north latitude.

Mr. Bartram, however, informed me, that he had found a fingle tree of this kind in Virginia, near the falls in the river James. Doctor Colden likewife afferted, that he had feen it in many places round his feat Coldingham,

* It has been obferved by feveral experiments, that any liquor dipt into another liquor, and then exposed into the air for evaporation, will get a remarkable degree of cold; the quicker the evaporation fucceeds, after repeated dippings, the greater is the cold. Therefore fpirit of wine evaporating quicker than water, cools more than water; and fpirit of fal ammoniac, made by quick-lime, being fill more volatile than fpirit of wine, its cooling quality is fill greater. The evaporation fucceeds better by moving the vessel containing the liquor, by exposing it to the air, and by blowing upon it, or using a pair of bellows. See de Mairan, Differtation fur la Glace, Prof. Richman in Nov. Comment. Petrop. ad an. 1747, & 1748. p. 284. and Dr. Cullen in the Edinburgh physical and literary Essand Otservations. Vol. II. p. 145. F.

+ Thuja occidentalis, Linn.

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hat any into the f cold; ed dipof wine water; ing fill y is fill y is fill y is fill y is fill ving the ir, and See de in Nov. and Dr. d Obferingham, which lies between New-York, and Albany, about forty-one degrees thirty minutes north latitude. The French, all over Canada, call it Cedre blanc. The English and Dutch in Albany, likewise call it the white Cedar. The English in Virginia, have called a Thuya, which grows with them, a Juniper.

THE places and the foil where it grows best, are not always alike, however it generally fucceeds in fuch ground where its roots have fufficient moilture. It feems to prefer swamps, marshes, and other wet places to all others, and there it grows pretty tall. Stony hills, and places where a number of ftones ly together, covered with feveral kinds of moffes *, feemed to be the next in order where it grows. When the fea shores were hilly, and covered with moffy ftones, the Thuya feldom failed to grow on them. It is likewife feen now and then on the hills near rivers, and other high grounds, which are covered with a dust like earth or mould; but it is to be observed that such places commonly carry a fourish water with them, or receive moisture from the upper countries. I have however feen it growing in fome pretty dry places; but there it never

* Lichen, Bryum, Hypnum.

comes

comes to any confiderable fize. It is pretty frequent in the clefts of mountains, but cannot grow to any remarkable height or thicknefs. The talleft trees I have found in the woods in *Canada*, were about thirty or thirty-fix feet high. A tree of exactly ten inches diameter had ninety-two rings round the ftem *; another of one foot and two inches in diameter had one hundred and forty-two rings +.

THE inhabitants of Canada generally make use of this tree in the following cases. It being reckoned the most durable wood in Canada, and which best withstands putrefaction, fo as to remain undamaged for above a man's age, enclosures of all kinds are fcarce made of any other than this wood. all the pofts which are driven into the ground, are made of the Thuya wood. The palifades round the forts in Canada are likewife made of the fame wood. The planks in the houses are made of it; and the thin narrow pieces of wood which form both the ribs and the bottom of the barkboats, commonly made use of here, are taken from this wood, because it is pliant

• Of these rings or circles, it is well known all trees get but one every year, so that they serve to ascertain the age of the tree, and the quickness, or flowness of its growth. F.

+ The bark is not included, when I speak of the diameters of these trees.

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trees get he age of th. F. diameters enough enough for the purpofe, especially whilst it is fresh, and likewise because it is very light. The Thuya wood is reckoned one of the best for the use of lime-kilns. Its branches are used allover *Canada* for besons; and the twigs and leaves of it being naturally bent together, seem to be very proper for the purpose. The *Indians* make such besons and bring them to the towns for sale, nor do I remember having seen any besons of any other wood. The fresh branches have a peculiar, agreeable scent, which is pretty strongly solution in house where they make use of besons of this kind.

THIS Thuya is made use of for several medicinal purposes. The commandant of Fort St. Frederic, M. de Lufignan, could never fufficiently praise its excellence for rheumatic pains. He told me he had often feen it tried, with remarkable good fuccefs, upon feveral perfons, in the following man-The fresh leaves are pounded in a ner. mortar, and mixed with hog's greafe, or any other greafe. This is boiled together till it becomes a falve, which is fpread on linen, and applied to the part where the pain is. The falve gives certain relief in a short time. Against violent pains, which move up and down in the thighs, and fometimes fpread all over the body, they recommend

mend the following remedy. Take of the leaves of a kind of Polypody * four-fifths, and of the cones of the Thuya one-fifth, both reduced to a coarfe powder by themfelves, and mixed together afterwards. Then pour milk-warm water on it, fo as to make a poultice, which foread on lines, and wrap it round the body : but as the poultice burns like fire, they commonly lay a cloth between it and the body, otherwife it would burn and fcorch the fkin. I have heard this remedy praifed beyond measure, by people who faid they had experienced its good effects. An Iroquese Indian told me, that a decoction of Thuya leaves was used as a remedy for the cough. In the neighbourhood of Saratoga, they use this decoction in the intermitting fevers.

THE Thuya tree keeps its leaves, and is green all winter. Its feeds are ripe towards the end of September, old ftyle. The fourth of October of this year, 1749, fome of the cones, especially those which stood much exposed to the heat of the sun, had already dropt their feeds, and all the other cones were opening in order to shed them. This tree has, in common with many other Ame-

* Polypodium fronde pinnata, pinnis alternis ad bafin superne appendiculatis.

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rican trees, the quality of growing plentiful in marshes and thick woods, which may be with certainty called its native places, However, there is fcarce a fingle Thuya tree in those places which bears seeds; if, on the other hand, a tree accidentally stands on the outfide of a wood, on the fea fhore, or in a field, where the air can freely come at it, it is always full of feeds. I have found this to be the cafe with the Thuya, on innumerable occasions. It is the same likewise with the fugar-maple, the maple which is good for healing fcorched wounds, the white fir-tree, the pine called Perusse, the mulberry-tree and feveral others.

August the 17th. This day I went to fee the nunnery of the Urfulines, which is disposed nearly in the same way as the two other nunneries. It lies in the town and has a very fine church. The nuns are renowned for their piety, and they go lefs abroad than any others. The men are likewife not allowed to go into this monastery, but by the special licence of the bishop, which is given as a great favour ; the royal phyfician, and the furgeon are alone entitled to go in as often as they pleafe, to visit the At the defire of the marquis de la fick. Galissonniere the bishop granted me leave to vifit this monastery together with the royal phyfician

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phyfician Mr. Gaulthier. On our arrival we were received by the abbes, who was attended by a great number of nuns, for the most part old ones. We faw the church ; and, it being Sunday, we found fome nuns on every fide of it kneeling by themfelves and faying prayers. As foon as we came into the church, the abbess and the nuns with her dropt on their knees, and fo did M. Gaulthier and myself. We then went to an apartment or fmall chapel dedicated to the Virgin Mary, at the entrance of which, they all fell on their knees again. We afterwards faw the kitchen, the dining hall and the apartment they work in, which is large and fine. They do all forts of neat work there, gild pictures, make artificial flowers, &c. The dining hall is disposed in the fame manner as in the other two monasteries. Under the tables are small drawers for each nun to keep her napkin, knife and fork, and other things in. Their cells are fmall, and each nun has one to herfelf. The walls are not painted; a little bed, a table with a drawer, and a crucifix, and pictures of faints on it, and a chair, conflitute the whole furniture of a cell. We were then led into a room full of young ladies about twelve years old and below that age, fent hither by their parents to be inftructed

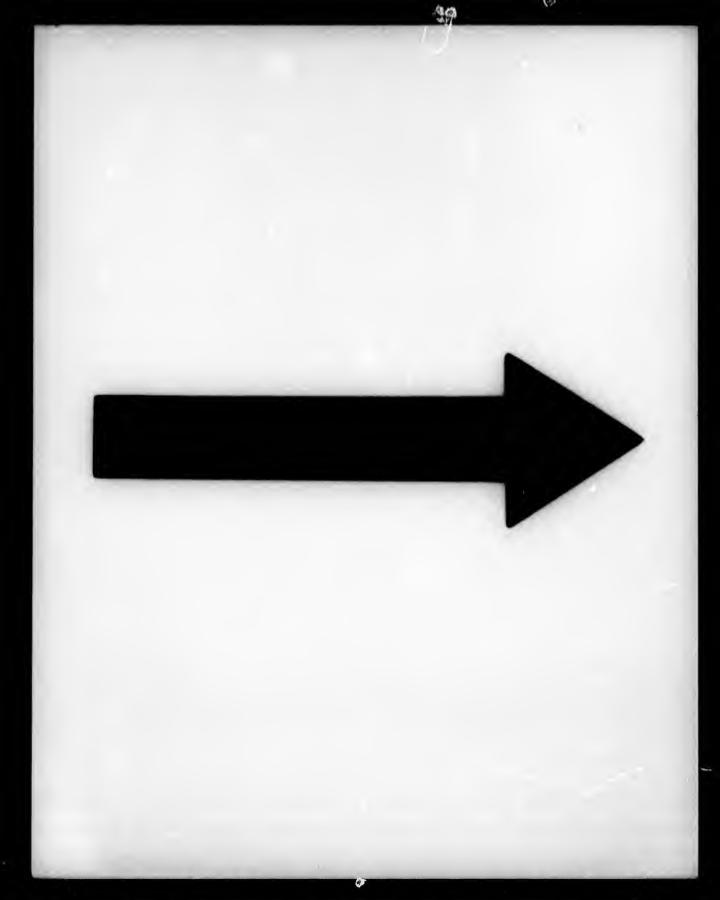
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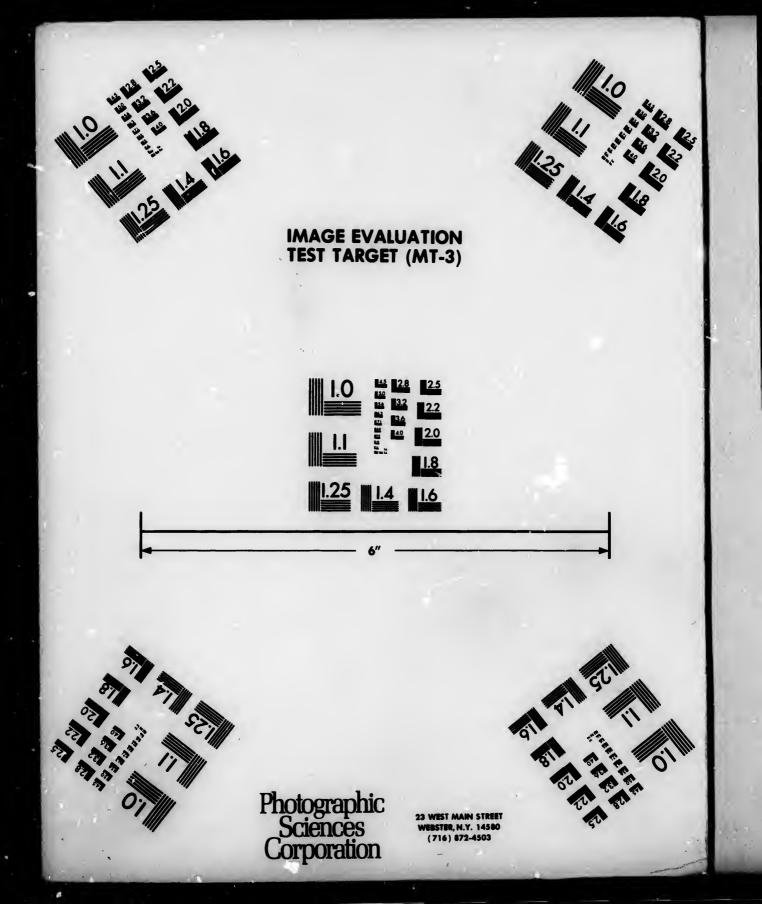
fructed in reading, and in matters of religion. They are allowed to go to visit their relations once a day, but must not stay away When they have learnt reading, and long. have received instructions in religion, they return to their parents again. Near the monastery, is a fine garden, which is furrounded with a high wall. It belongs to this institution, and is flocked with all forts of kitchen-herbs and fruit-trees, When the nuns are at work, or during dinner, every thing is filent in the rooms, unlefs fome one of them reads to the others; but after dinner, they have leave to take a walk for an hour or two in the garden, or to divert themselves within-doors. After we had feen every thing remarkable here, we took our leave, and departed.

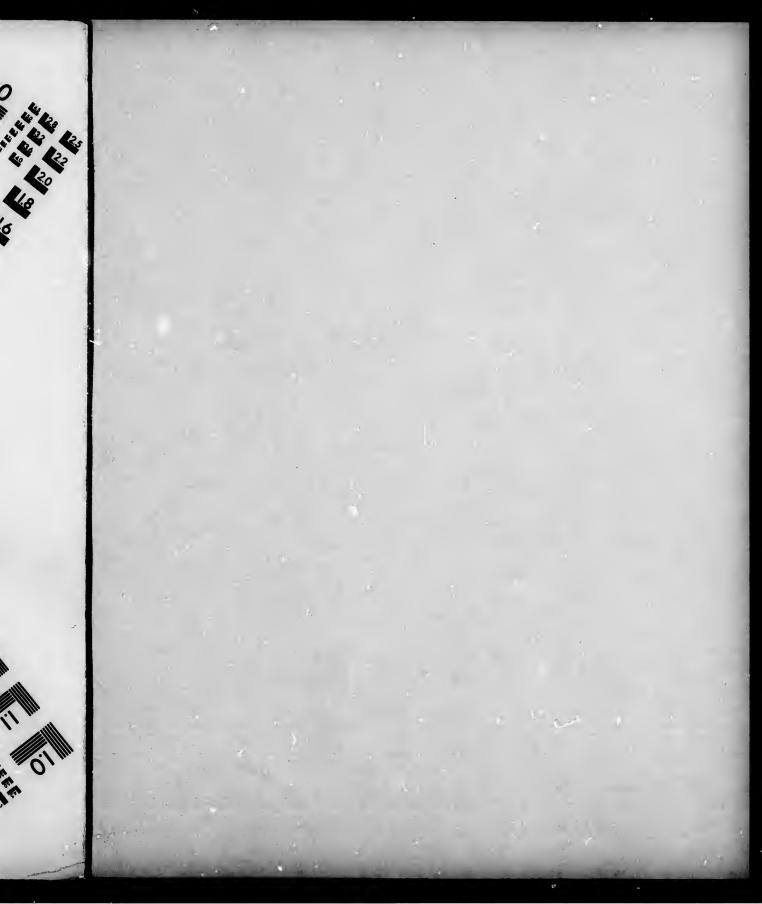
ABOUT a quarter of a Swedish mile to the weft of Quebec, is a well of mineral waters, which carries a deal of iron ocker with it, and has a pretty ftrong tafte. M. Gaulthier faid, that he had prefcribed it with fucces in costive cases and the like diseases.

I have been affured, that there are no fnakes in the woods and fields round Quebec, whose bite is possionous; so that one can fastely walk in the grass. I have never found any that endeavoured to bite, and all were very fearful. In the south parts Vol. III. M of

rrival o was s, for urch ; ins on' es and e into s with id M. ent to ted to which, We ng hall hich is f neat tificial ifpofed er two fmall apkin. Their to hera little rucifix, chair, a cell. young w that be intructed







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of Canada, it is not adviseable to be off one's guard.

A very fmall species of black ants * live in ant-hills, in high grounds, in woods; they look exactly like our Swedish ants, but are much lefs.

August the 21st. To-DAY there were fome people of three Indian nations in this country with the governor-general, viz. Hurons, Mickmacks, and Anies +; the laft of which are a nation of Iroquese, and allies of the English, and were taken prifoners in the laft war.

THE Hurons are fome of the fame Indians with those who live at Lorette, and have received the christian religion. They are tall, robust people, well shaped, and of a copper colour. They have fhort black hair, which is shaved on the forehead, from one car to the other. None of them wear hats or caps. Some have ear-rings, others Many of them have the face painted not. all over with vermillion; others have only strokes of it on the forehead, and near the ears; and fome paint their hair with vermillion. Red is the colour they chiefly make use of in painting themselves; but I

· Formica nigra. Linn. + Probably Onidees.

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have likewife feen fome, who had daubed their face with a black colour. Many of them have figures in the face; and on the whole body, which are stained into the skin, fo as to be indelible. The manner of making them shall be described in the fequel. These figures are commonly black ; fome have a inake painted in each cheek; fome have feveral croffes; fome an arrow; others the fun, or any thing elfe their imagination leads them to. They have fuch figures likewife on the breast; thighs, and other parts of the body; but fome have no figures at all. They wear a thirt, which is either white or checked, and a fhaggy piece of cloth, which is either blue or white; with a blue or red stripe below. This they always carry over their shoulders, or let it hang down, in which cafe they wrap it round their middle. Round their neck, they have a ftring of violet wampums, with little white wampums between them. These wampums are small, of the figure of oblong pearls, and made of the shells which the English call clams*. I shall make a more particular mention of them in the fequel. At the end of the wampum ftrings, many of the Indians wear a large.

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French filver coin, with the king's effigy, on their breafts. Others have a large fhell on the breaft, of a fine white colour, which they value very high, and is very dear; others, again, have no ornament at all round the neck. They all have their breafts uncovered. Before them hangs their tobacco-pouch, made of the fkin of an animal, and the hairy fide turned outwards. Their floes are made of fkins, and bear a great refemblance to the floes without heels, which the women in Finland make use of. Instead of flockings, they wrap the legs in pieces of blue cloth, as I have feen the Ruffian boors do.

THE Mickmacks are dreffed like the Hurons, but diftinguish themselves by their long strait hair, of a jetty-black colour. Almost all the Indians have black strait hair; however, I have met-with a few. whole hair was pretty much curled. But it is to be observed, that it is difficult to judge of the true complexion of the Canada Indians, their blood being mixed with the Europeans, either by the adopted prifoners of both fexes, or by the Frenchmen, who travel in the country, and often contribute their share towards the encrease of the Indian families, their women not being very fly. The Mickmacks are commonly not

not fo tall as the Hurons. I have not feen any Indians whose hair was as long and strait as theirs. Their language is different from that of the Hurons; therefore there is an interpreter here for them on purpole.

THE Anies are the third kind of Indians which came hither. Fifty of them went out in the war, being allies of the English, in order to plunder in the neighbourhood of Montreal. But the French, being informed of their scheme, laid an ambush, and killed with the first discharge of their guns fortyfour of them; fo that only the four who were here to-day faved their lives, and two others, who were ill at this time. They are as tall as the Hurons, whole language they speak. The Hurons seem to have a longer, and the Anies a rounder face. The Anies have fomething cruel in their looks; but their drefs is the fame as that of the other Indians. They wear an oblong piece of white tin between the hair which lies on the neck. One of those I faw had taken a flower of the role mallow, out of a garden, where it was in full bloffom at this time, and put it among the hair at the top of his hand. Each of the Indians has a tobaccopipe of grey lime-stone, which is blackened afterwards, and has a long tube of wood. There were no Indian women prefent at M 2

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effigy, ge shell which dear : at all e their hangs kin of d outkins, e shoes n Finckings, e cloth.

he Huy their colour. c ftrait a few, . But cult to e Canad with ed princhmen. n conrease of ot being nmonly not

this enterview. As foon as the governorgeneral came in, and was feated in order to fpeak with them, the *Mickmacks* fat down on the ground, like *Laplanders*, but the other *Indians* took chairs.

THERE is no printing-prefs in Canada, tho' there formerly was one : but all books are brought from France, and all the orders made in the country are written, which extends even to the paper-currency. They pretend that the prefs is not yet introduced here, left it should be the means of propagating libels against the government, and religion. But the true reason seems to ly in the poorness of the country, as no printer could put off a sufficient number of books for his subsistence; and another reason may be, that France may have the profit arising from the exportation of books hither.

THE meals here are in many respects different from those in the English provinces. This perhaps depends upon the difference of custom, taste, and religion, between the two nations. They eat three meals a day, viz. breakfast, dinner, and supper. They breakfast commonly between seven and eight. For the French here rise very early, and the governorgeneral can be spoke to at seven o'clock, which

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anada, books orders which They introcans of ment, feems as no umber nother ve the books

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which is the time when he has his levee. Some of the men dip a piece of bread in brandy, and eat it; others take a dram of brandy, and eat a piece of bread after it. Chocolate is likewife very common for breakfast, and many of the ladies drink coffee. Some eat no breakfast at all. I have never feen tea made use of; perhaps because they can get coffee and chocolate from the French provinces in South-America; but must get tea from China, for which it is not worth their while to fend the money out of their country. Dinner is pretty exactly at noon. People of quality have a great variety of difnes, and the reft follow their example, when they invite ftrangers. The loaves are oyal, and baked of wheat flour. For each perfon they put a plate, napkin, spoon, and fork. Sometimes they likewife give knives; but they are generally omitted, all the dies and gentlemen being provided with heir own knives. The spoons and fork se of filver, and the plates of Delft ware. The meal begins with a foup, with a good deal of bread in it. Then follow fresh meats of various kinds, boiled, and roafted, poultry, or game, fricaffees, ragoos, Gc. of feveral forts; together with different kinds of fallads. They commonly drink red claret M 4

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claret at dinner, mixed with water; and spruce beer is likewise much in use. The ladies drink water, and fometimes wine. After dinner the fruit and fweet-meats are ferved up, which are of many different kinds, viz. walnuts from France, or Canada, either ripe, or pickled; almonds, raifins, hafelnuts, feveral kinds of berries, which are ripe in the fummer feason, fuch as currants, cran-berries, which are preferved in treacle; many preferves in fugar as straw-berries, rasp-berries, black-berries, and moss-berries. Cheese is likewise a part of the defert, and fo is milk, which they eat last of all with fugar. Friday and Saturday they eat no flesh, according to the Roman catholic rites; but they well know how to guard against hunger. On those days they boil all forts of kitchen-herbs, and fruit; fishes, eggs, and milk, prepared in various ways. They cut cucumbers into flices, and eat them with cream, which is a very good difh, Sometimes they put whole cucumbers on the table, and every body that likes them takes one, peels, and flices it, and dips the flices into falt, eating them like raddifhes. Melons abound here, and are always eaten with fugar. They never put any fugar into wine, or brandy, and upon the whole, they and the Englift · · · /

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English do not use half so much sugar, as we do in Sweden; though both nations have large sugar-plantations in their West-Indian possession. They say no grace before, or after their meals, but only cross themfelves, which is likewise omitted by some. Immediately after dinner, they drink a dish of coffee, without cream. Supper is commonly at seven o'clock, or between seven and eight at night, and the dishes the same as at dinner. Pudding and punch is not to be met with here, though the latter is well known.

August the 23d. In many places hereabouts they use their dogs to fetch water out of the river. I faw two great dogs to day put before a little cart, one before the other. They had neat harnefs, like horfes, and bits in their mouths. In the cart was The dogs are directed by a boy, a barrel. who runs behind the cart, and as foon as they come to the river, they jump in, of When the barrel is their own accord. filled, the dogs draw their burthen up the hill again, to the house they belong to. I have frequently feen dogs employed in this manner, during my stay at Quebec. Sometimes they put but one dog before the water-carts, which are made fmall on purpose. The dogs are not very great, hardiy

ly of the fize of our common farmers dogs. The boys that attend them have great whips, with which they make them go on occasionally. I have seen them fetch not only water, but likewife wood, and other things. In winter it is customary in Canada, for travellers to put dogs before little fledges, made on purpole to hold their clothes, provisions, &c. Poor people commonly employ them on their winterjournies, and go on foot themfelves. Almost all the wood, which the poorer people in this country fetch out of the woods in winter, is carried by dogs, which have therefore got the name of horfes of the poor people. They commonly place a pair of dogs before each load of wood. I have likewife fean fome neat little fledges, for ladies to ride in, in winter; they are drawn by a pair of dogs, and go faster on a good road, than one would think. A middlefized dog is sufficient to draw a fingle perfon, when the roads are good. I have been told by old people, that horses were very fcarce here in their youth, and almost all the land-carriage was then effected by dogs. Several Frenchmen, who have been among the Efguimaux on Terra Labrador, have affured me, that they not only make ple of dogs for drawing drays, with their provisions,

provisions, and other necessities, but are likewife drawn by them themselves, in little fledges.

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August the 25th. THE high hills, to the welt of the town, abound with fprings. These hills consist of the black lime-flate. before mentioned, and are pretty fleep, fo that it is difficult to get to the top. Their perpendicular height is about twenty or four and twenty yards. Their fummits are destitute of trees, and covered with a thin cruft of earth, lying on the lime-flates, and are employed for corn-fields, or paf-It feems inconceivable therefore, tures. from whence these naked hills could take fo many running springs, which in some places gush out of the hills, like torrents. Have these hills the quality of attracting the water out of the air in the day time, or at night? Or are the lime-flates more apt to it, than others?

ALL the horfes in Canada are ftrong, well made, fwift, as tall as the horfes of our cavalry, and of a breed imported from France. The inhabitants have the cuftom of docking the tails of their horfes, which is rather hard upon them here, as they cannot defend themfelves against the numerous swarms of gnats, gad-flies, and horfe-flies. They put the horfes one before

fore the other in their carts, which has probably occasioned the docking of their tails, as the horses would hurt the eyes of those behind them, by moving their tails backwards and forwards. The governorgeneral, and a few of the chief people in town, have coaches, the rest make use of open horse-chairs. It is a general complaint, that the country people begin to keep too many horses, by which means the cows are kept short of food in winter.

THE cows have likewife been imported from France, and are of the fize of our common Swedifb cows. Every body agreed that the cattle, which were born of the original French breed, never grow up to the fame fize. This they afcribe to the cold winters, during which they are obliged to put their cattle into stables, and give them but little food. Almost all the cows have horns, a few, however, I have feen without them. A cow without horns would be reckoned an unheard of curiofity in Penfylvania. Is not this to be attributed to the cold? The cows give as much milk here as in France. The beef and veal at Quebec, is reckoned fatter and more palatable than at Montreal. Some look upon the falty pastures below Quebec, as the cause of this difference. But this does

does not feem fufficient; for most of the cattle, which are fold at Quebec, have no meadows with Arrow-headed grafs*, on which they graze. In Canada the oxen draw with the horns, but in the English colonies they draw with their withers, as horses do. The cows vary in colour; however, most of them are either red, or black.

EVERY countryman commonly keeps a few fheep, which fupply him with as much wool as he wants to cloth himself with. The better fort of clothes are brought from *France*. The sheep degenerate here, after they are brought from *France*, and their progeny still more so. The want of food in winter is faid to cause this degeneration.

I HAVE not feen any goats in Canada, and I have been affured that there are none. I have feen but very few in the English colonies, and only in their towns, where they are kept on account of fome fick people, who drink the milk by the advice of their phyficians.

THE harrows are triangular; two of the fides are fix feet, and the third four feet long. The teeth, and every other part of the harrows are of wood. The teeth are

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about five inches long, and about as much distant from each other.

THE prospect of the country about a quarter of a mile Swedish, north of Quebec, on the west fide of the river St. Lawrence, is very fine. The country is very steep towards the river, and grows higher as you go further from the water. In many places it is naturally divided into terraces. From the heights, one can look a great way i Quebec appears very plain to the fouth, and the river St. Lawrence to the east. on which were veffels failing up and down. To the weft are the high mountains, which the hills of the river end with. All the country is laid out for corn-fields, meadows, and pastures; most of the fields were fown with wheat, many with white oats, and fome with peafe. Several fine houses and farms are interfperfed all over the country, and none are ever together. The dwelling house is commonly built of black lime- ates, and generally white-washed on se outside. Many rivulets and brooks ro' down the high grounds, above which the great mountains ly, and which confift entirely of the black lime-flates, that shiver in pieces in the open air. On the lime-flates lies a mould of two or three feet in depth. The foil in the corn-fields is always mixed with little

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little pieces of the lime-flate. All the rivulets cut their beds deep into the ground; fo that their fhores are commonly of limeflate. A dark-grey lime-ftone is fometimes found among the ftrata, which, when broke, fmells like ftink-ftone.

THEY were now building feveral thips below Quebec, for the king's account. However, before my departure, an order arrived from France, prohibiting the further building of thips of war, except those which were already on the flocks ; because they had found, that the ships built of American oak do not last fo long as those of European oak. Near Quebec is found very little oak, and what grows there is not fit for use, being very small; therefore they are obliged to fetch their oak timber from those parts of Canada which border upon New-England. But all the North-American oaks have the quality of lafting longer, and withstanding putrefaction better, the further north they grow, and vice versa. The timber from the confines of New-England is brought in floats or rafts on the rivers near those parts, and near the lake St. Pierre, which fall into the great river St. Lawrence. Some oak is likewife brought from the country between Montreal and Fort St. Frederic, or Fort Champlain; but

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it is not reckoned fo good as the first, and the place it comes from is further distant.

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August the 26th. THEY shewed a green earth, which had been brought to the general, marquis de la Galissonniere, from the upper parts of Canada. It was a clay, which cohered very fast together, and was of a green colour throughout, like verdigrease.+

ALL the brooks in *Canada* contain crawfifh, of the fame kind with ours. The *French* are fond of eating them, and fay they are vaftly decreased in number fince they have begun to catch them.

THE common people in the country, feem to be very poor. They have the neceffaries of life, and but little elfe. They are content with meals of dry bread and water, bringing all other provisions, fuch as butter, cheefe, flefh, poultry, eggs, Sc. to town, in order to get money for them, for which they buy clothes and brandy for themfelves, and dreffes for their women. Notwithstanding their poverty, they are always chearful, and in high fpirits.

August the 29th. By the defire of the governor-general, marquis de la Jonquiere,

+ It was probably impregnated with particles of copper ore.

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From Quebec to Bay St. Paul. 193

and of marquis de la Galiffonniere, I fet out, with fome French gentlemen, to vifit the pretended filver-mine, or the leadmine, near the bay St. Paul. I was glad to undertake this journey, as it gave me an opportunity of feeing a much greater part of the country, than I should otherwise have done. This morning therefore we fet out on our tour in a boat, and went down the river St. Lawrence.

THE harvest was now at hand, and I faw all the people at work in the cornfields. They had began to reap wheat and oats, a week ago.

THE profpect near Quebec is very lively from the river. The town lies very high, and all the churches, and other buildings, appear very confpicuous. The fhips in the river below ornament the landscape on that fide. The powder magazine, which stands at the summit of the mountain, on which the town is built, towers above all the other buildings.

THE country we passed by afforded a no lefs charming fight. The river St. Lawrence flows nearly from fouth to north here; on both fides of it are cultivated fields, but more on the west fide than on the east fide. The hills on both shores are steep, and high. A number of fine Vol. III. N hills,

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hills, feparated from each other, large fields, which looked quite white from the corn with which they are covered, and excellent woods of deciduous trees, made the country round us look very pleafant. Now and then we faw a church of ftone, and in feveral places brooks fell from the hills into the river. Where the brooks are confiderable, there they have made faw-mills, and water-mills.

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AFTER rowing for the space of a French mile and a half, we came to the isle of Orleans, which is a large island, near seven French miles and a half long, and almost two of those miles broad, in the widest part. It lies in the middle of the river St. Lawrence, is very high, has steep and very woody shores. There are some places without trees, which have farm-houses below, quite close to the shore. The isle itself is well cultivated, and nothing but fine houses of stone, large corn-fields, meadows, pastures, woods of deciduous trees, and some churches built of stone, are to be sent on it.

WE went into that branch of the river which flows on the west fide of the isle of Orleans, it being the shortest. It is reckoned about a quarter of a French mile broad, but ships cannot take this road, on account

From Quebec to Bay St. Paul. 195

account of the fand-banks, which ly here near the projecting points of land, and on account of the shallowness of the water, the rocks, and stones at the bottom. The shores on both fides still kept the fame appearance as before. On the west fide, or on the continent, the hills near the river confift throughout of black lime-flate, and the houses of the peasants are made of this kind of stone, white-washed on the outlide. Some few houses are of different kinds of stone. The row of ten mountains, which is on the west fide of the river, and runs nearly from fouth to north, gradually comes nearer to the river : for at Quebec they are near two French miles distant from the shore; but nine French miles lower down the river, they are almost close to the shore. These mountains are generally covered with woods, but in fome places the woods have been destroyed by accidental fires. About eight French miles and a half from Quebec, on the west fide of the river, is a church, called St. Anne, close to the shore. This church is remarkable, because the ships from France and other parts, as foon as they are got fo far up the river St. Lawrence, as to get fight of it, give a general discharge of their artillery, as a fign of joy, that they have N 2 paft

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past all danger in the river, and have escaped all the fands in it.

THE water had a pale red colour, and was very dirty in those parts of the river, which we faw to-day, though it was every where computed above fix fathoms deep. Somewhat below St. Anne, or the west fide of the river St. Lawrence, another river, called la Grande Riviere, or the Great River, falls in it. Its water flows with fuch violence, as to make its way almost into the middle of the branch of the river St. Lawrence, which runs between the continent, and the isle of Orleans.

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ABOUT two o'clock in the afternoon the tide began to flow up the river, and the wind being likewise against us, we could not proceed any farther, till the tide began to ebb. We therefore took up our night lodgings in a great farm, belonging to the priefts in Quebec, near which is a fine church, called St. Joschim, after a voyage of about eight French miles. We were exceeding well received here. The king has given all the country round about this place to the feminary, or the priefts at Quebec, who have leafed it to farmers, who have built houses on it. Here are two priefts, and a number of young boys, whom they instruct in reading, writing, and Latin.

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Coloradoria

From Quebec to Bay St. Paul. 197

tin. Most of these boys are defigned for priest: Directly opposite this farm, to the eastward, is the north-east point, or the extremity of the isle of Orleans.

ALL the gardens in *Canada* abound with red currant fhrubs, which were at first brought over from *Europe*. They grow exceffively well here, and the fhrubs, or busches, are quite red, being covered all over with the berries.

THE wild vines * grow pretty plentifully in the woods. In all other parts of *Canada* they plant them in the gardens, near arbours, and fummer-houses. The fummer-houses are made entirely of laths, over which the vines climb with their tendrils, and cover them entirely with their foliage, so as to shelter them entirely from the heat of the fun. They are very refreshing and cool, in fummer.

THE strong contrary winds obliged us to ly all night at St. Joachim.

August the 30th. This morning we continued our journey in fpite of the wind, which was very violent against us. The water in the river begins to get a brackish taste, when the tide is highest, somewhat below St. Joachim, and the further one

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August 1749.

goes down, the more the faline tafte encreafes. At first the western shore of the river has fine, but low corn-fields, but soon after the high mountains run close to the river fide. Before they come to the river the hilly thores confift of black lime-flate; but as foon as the high mountains appear on the river fide, the lime-flates difappear. For the stone, of which the high mountains confift, is a chalky rock-ftone, mixed with glimmer and quartz*. The glimmer is black; the quartz partly violet, and partly grey. All the four conftituent parts are fo well mixed together, as not to be eafily separated by an instrument, though plainly diftinguishable with the eye. During our journey to-day, the breadth of the river was generally three French miles. They shewed me the turnings the ships are obliged to fail in, which feem to be very troublesome, as they are obliged to bear away for either shore, as occasion requires, or as the rocks and fands in the river oblige them to do.

For the distance of five French miles we had a very dangerous passage to go through; for the whole western shore, along which we rowed, consists of very high and steep

• Saxum micaceo quarzofo-calcarium.

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From Quebec to Bay St. Paul. 199

mountains, where we could not have found a fingle place to land with fafety, during the space of five miles, in case a high wind had arifen. There are indeed two or three openings, or holes, in the mountains, into which one could have drawn the boat, in the greatest danger. But they are fo narrow, that in cafe the boat could not find them in the hurry, it would inevitably be dashed against the rocks. These high mountains are either quite bare, or covered with some small firs, standing far asunder. In fome places there are great clefts, going down the mountains, in which trees grow very close together, and are taller than on the other parts of the mountain; fo that those places look like quick-hedges, planted on the folid rock. A little while after we passed a small church, and some farms round it. The place is called Petite Riviere, and they fay, its inhabitants are very poor, which feems very probable. They have no more land to cultivate, than what lies between the mountains and the river, which in the widest part is not above three musket shot, and in most parts but one broad. About seventeen French miles from Quebec the water is so falty in the river, that no one can drink it, our rowers therefore provided themfelves with a kettle N 4 full

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August 1749.

full of fresh water this morning. About five o'clock in the evening, we arrived at bay St. *Paul*, and took our lodgings with the priest, who have a fine large house here, and entertained us very hospitably.

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BAY St. Paul is a small parish, about eighteen French miles below Quebec, lying at fome distance from the shore of a bay formed by the river, on a low plain. It is furrounded by high mountains on every fide, one large gap excepted, which is overagainst the river. All the farms are at some distance from each other. The church is reckoned one of the most ancient in Canada; which feems to be confirmed by its bad architecture, and want of ornaments; for the walls are formed of pieces of timber, erected at about two feet distance from each other, supporting the roof. Between these pieces of timber, they have made the walls of the church of lime-flate. The roof is The church has no fleeple, but a bell flat. fixed above the roof, in the open air. Almost all the country in this neighbourhood belongs to the priefts, who have leafed it to the farmers. The inhabitants live chiefly upon agriculture and making of tar, which last is sold at Quebec.

THIS country being low, and fituated upon a bay of the river, it may be conjectured,

Bay St. Paul.

tured, that this flat ground was formerly part of the bottom of the river, and formed itself, either by a decrease of water in the river, or by an encrease of earth; which was carried upon it from the continent by the brooks, or thrown on it by ftorms. A great part of the plants, which are to be met with here, are likewife marine; fuch as glass-wort, fea milk-wort, and fea-fide peafe +. But when I have asked the inhabitants, whether they find shells in the ground by digging for wells, they always answered in the negative. I received the fame answer from those who live in the low fields directly north of Quebec, and all agreed, that they never found any thing by digging, but different kinds of earth and fand.

It is remarkable, that there is generally a different wind in the bay from that in the river, which arifes from the high mountains, covered with tall woods, with which it is furrounded on every fide but one. For example, when the wind comes from the river, it ftrikes against one of the mountains at the entrance of the bay, it is reflected, and consequently takes a direction quite different from what it had before.

+ Salicornia, Glaux, Pisum maritimum.

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August 1749.

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I FOUND fand of three kinds upon the fhore; one is a clear coarfe fand, confifting of angulated grains of quartz, and is very common on the fhore; the other is a fine black fand, which I have likewife found in abundance on the fhores of lake Champlain, * and which is common all over Canada, Almost every grain of it is attracted by the magnet. Besides this, there is a granet coloured fand +, which is likewife, very fine. This may owe its origin to the granet coloured grains of fand, which are to be found in all the flones and mountains here near the flore. The fand may have arisen from the crumbled pieces of some stones, or the stones may have been compoled of it. I have found both this and the black fand on the fhores, in feveral parts of this journey; but the black fand was always the most plentiful.

August the 31st. ALL the high hills in the neighbourhood fent up a smoke this morning, as from a charcoal-kiln.

GNATS are innumerable here; and as foon as one looks out of doors, they immediately attack him; and they are still worse in the woods. They are exactly the fame

• See p. 24. of this volume. + See p. 24. of this volume.

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Bay St. Paul.

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gnats as our common Swedish ones, being only fomewhat less than the North-American gnats all are. Near Fort St. Jean, I have likewise feen gnats which were the fame with ours, but they were fomewhat bigger, almost of the fize of our crane-flies*. Those which are here, are beyond measure blood-thirsty. However, I comforted myfelf, because the time of their disappearance was near at hand.

This afternoon we went still lower down the river St. Lawrence, to a place, where, we were told, there were filver or lead Somewhat below bay St. Paul, mines. we paffed a neck of land, which confifts entirely of a grey, pretty compact limestone, lying in dipping, and almost perpendicular strata. It feems to be merely a variety of the black lime-flates. The ftrata dip to the fouth-east, and basset out to the north-weft. The thickness of each is from ten to fifteen inches. When the ftone is broken, it has a ftrong fmell, like ftinkstone. We kept, as before, to the western fhore of the river, which confifts of nothing but steep mountains and rocks. The river is not above three French miles broad here. Now and then we could fee ftripes in the

* Tipula bortorum. Linn.

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rock.

August 1749.

rock of a fine white, loose, semi-opaque fpar. In some places of the river are pieces of rock as big as houses, which had rolled from the mountains in fpring. The places they formerly occupied are plainly to be feen.

In feveral places, they have cel-traps in the river, like those I have before defcribed +.

By way of amusement, I wrote down a few Algonkin words, which I learnt from a Jejuit who has been a long time among the Algonkins. They call water, mukuman; the head, uftigon ; the heart, uta; the body, veetras; the foot, ukhita; a little boat, usb; a ship, nabikoan; fire, skute; hay, maskoose; the hare, whabus; (they have a verb, which expresses the action of hunting hares, derived from the noun); the marten, whabistanis; the elk, moofu * (but fo that the final u is hardly pronounced); the

+ See p. 92. of this volume. * The famous monfe-deer is accordingly nothing but an e!k ; for no one can deny the derivation of moofe-deer from moeju. Confidering especially, that before the lroqueje or Five Nations grew to that power, which they at prefent have all over North-America, the Algonkins were then the leading nation among the Indians, and their language was of course then a most universal language over the greater part of North-America ; and though they have been very nearly deftroyed by the Iroquefe, their language is still more universal in Can.ida, than any of the reft. F.

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Terre d'Eboulement.

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rein-deer, atticku; the moule, mawitulfis. The Jefuit who told me thole particulars, likewile informed me, that he had great reason to believe, that, if any Indians here owed their origin to Tataria, he thought the Algonkins certainly did; for their language is universally spoken in that part of North-America, which lies far to the west of Canada, towards Asia. It is faid to be a very copious language; as for example, the verb to go upon the ice, is entirely different in the Algonkin from to go upon dry land, to go upon the mountains, &c.

LATE at night we arrived at Terre d'Eboulement, which is twenty-two French miles from Quebec, and the last cultivated place on the western shore of the river St. Lawrence. The country lower down is faid to be fo mountainous, that no body can live in it, there not being a fingle spot of ground, which could be tilled. A little church, belonging to this place, stands on the shore, near the water.

No walnut-trees grow near this village, nor are there any kinds of them further north of this place. At bay St. Paul, there are two or three walnut-trees of that fpecies which the English call butter-nut-trees; but they are looked upon as great rarities, and

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and there are no others in the neighbourhood.

OAKS of all kinds, will not grow near this place, nor lower down, or further north.

WHEAT is the kind of corn which is fown in the greateft quantities here. The foil is pretty fertile, and they have fometimes got twenty-four or twenty-fix bufhels from one, though the harveft is generally ten or twelve fold. The bread here is whiter than any where elfe in *Canada*.

THEY fow plenty of oats, and it fucceeds better than the wheat.

THEY fow likewife a great quantity of peas, which yield a greater encreafe than any corn; and there are examples of its producing an hundred fold.

HERE are but few birds; and those that pass the summer here, migrate in autumn; so that there are no other birds than snowbirds, red partridges, and ravens, in winter. Even crows do not venture to expose themselves to the rigours of winter, but take flight in autumn.

THE Bull-frogs live in the pools of this neighbourhood. Fire flies are likewife to be found here.

INSTEAD of candles, they make use of lamps in country places, in which they burn

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Terre d'Eboulemente.

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use of they burn burn train-oil of porpeffes, which is the common oil here. Where they have none of it, they supply its place with train-oil of seals.

September the 1st. THERE was a woman with child in this village, who was now in the fifty-ninth year of her age. She had not had the catamenia during eighteen years. In the year 1748, she got the small-pox, and now she was very big. She faid she was very well, and could feel the motions of the scatus. She looked very well, and had her husband alive. This being an uncommon case, she was brought to the royal physician, M. Gaulthier, who accompanied us on this journey.

At half an hour after feven this morning we went down the river. The country near *Terre d'Eboulement* is high, and confifts of hills of a loofe mould, which ly in three or four rows above each other, and are all well cultivated, and mostly turned into corn-fields; though there are likewise meadows and pastures.

THE great earthquake which happened in Canada, in February, 1663, and which is mentioned by Charlevoix *, has done confiderable damage to this place. Many

* See his H-floire de la Nouvelle France, Tom. II, p. m. 125. hills

hills tumbled down; and a great part of the corn-fields on the loweft hills were deftroyed. They fhewed me feveral little iflands; which arofe in the river on this occasion.

THERE are pieces of black lime-flate fcattered on those hills, which confist of mould. For the space of eight French miles along the side of the river, there is not a piece of lime-flate to be seen; but instead of it, there are high grey mountains, consisting of a rock-stone, which contains a purple and a crystaline quartz, mixed with lime-stone, and black glimmer. The roots of these mountains go into the water. We now begin to see the lime-flates again.

HERE are a number of Terns *, which fly about, and make a noise along the shore.

THE river is here computed at about four *French* miles broad.

ON the fides of the river, about two French miles inland, there are fuch terraces of earth as at Terre d'Eboulement; but foon after they are fucceeded by high difagreeable mountains.

SEVERAL brooks fall into the river here, over the steep shores, with a great noise. The shores are sometimes several yards

* Stgrna birundo Linn.

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Terre d'Eboulement.

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high, and confift either of earth, or of rock-ftone.

ONE of these brooks, which flows over a hill of lime-ftone, contains a mineral water. It has a strong smell of sulphur, is very clear, and does not change its colour, when mixed with gall-apples. If it is poured into a filver cup, it looks as if the cup was gilt; and the water leaves a fediment of a crimfon colour at the bottom. The stones and pieces of wood, which ly in the water, are covered with a flime, which is pale grey at the top, and black at the bottom of the stone. This slime has not much pungency, but taftes like oil of tobacco. My hands had a fulphureous smell all day, because I had handled some of the flimy ftones.

THE black lime-flate now abounds again, near the level of the water. It lies in strata, which are placed almost perpendicularly near each other, inclining a little towards W. S. W. Each stratum is between ten and fifteen inches thick. Moft of them are fhivered into thin leaves at the top, towards the day; but in the infide, whither neither fun, nor air and water can penetrate, they are close and compact. Some of these stones are not quite black, but have a greyish cast. VOL. III.

ABOUT

ABOUT noon we arrived at Cap aux Oyes, or Geefe Cape, which has probably got its name from the number of wild geele which the French found near it, on their first arrival in Canada. At present, we faw neither geefe, nor any kind of birds here, a fingle raven excepted. Here we were to examine the renowned metallic veins in the mountain; but found nothing more than fmall veins of a fine white fpar, containing a few specks of lead ore. Cap aux Oyes is computed twenty-two, or twenty-five French miles diftant from Quebec. I was most pleased by finding, that most of the plants are the same as grow in Sweden; a proof of which I shall produce in the fequel.

THE fand-reed * grows in abundance in the fand, and prevents its being blown about by the wind.

THE fea-lyme grafs + likewife abounds on the fhores. Both it and the preceding plant are called Seigle de mer ‡ by the French. I have been affured that these plants grow in great plenty in Newfoundland, and on other North-American shores; the places covered with them looking, at

* Arundo arenaria Linn. † Elymus arenarius Linn. † Sea-sye.

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Cap aux Oyes.

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a diftance, like corn-fields; which might explain the paffage in our northern accounts, of the excellent wine land *, which mentions, that they had found whole fields of wheat growing wild.

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The sea-fide plantain + is very frequent on the shore. The French boil its leaves in a broth on their sea-voyages, or eat them as a sallad. It may likewise be pickled like samphire.

THE bear-berries ‡ grow in great abundance here. The Indians, French, Englifb, and Dutch, in those parts of North-America, which I have seen, call them Sagackhomi, and mix the leaves with tobacco for their use.

GALE, or fweet willow §, is likewife abundant here. The French call it Laurier, and fome Poivrier. They put the leaves into their broth, to give it a pleafant tafte.

THE sea-rocket || is, likewise, not un-

• Vinland det geda, or the good wine-land, is the name which the old Scandinavian navigators gave to America, which they discovered long before Columbus. See Torfæi Historia Vinlandiæ antiquæ f. partis Americæ septentrionaliss Hafniæ 1715, 4to. and Mr. George Westmann's, A. M. Dissertation on that Subject. Abo 1747. F.

+ Plantago maritima Linn.

I Arbutus uva urfi Linn.

§ Myrica gale Linn.

|| Bunias cakile Linn.

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common.

common. Its root is pounded, mixed with flour, and caten here, when there is a fcarcity of bread.

THE forb-tree, or mountain-afh, the cranberry-bufh, the juniper-tree, the fea-fide peafe, the Linnæa, and many other Swedifb plants, are likewife to be met with here.

We returned to bay St. Paul to-day. A grey feel fwam behind the boat for fome time, but we not near enough to be fhot at.

September the 2d. This morning we went to fee the filver or lead wins. They ly a little on the fouth-fide of the mills, belonging to the priefts. The mountain in which the veins ly, has the fame constituent parts, as the other high grey rocks in this place, viz. a rock-stone composed of a whitish or pale grey lime-stone, a purple or almost garnet-coloured quartz, and a black glimmer. The lime-ftone is in greater quantities here than the other parts; and it is fo fine as to be hardly visible. It effervesces very strongly with aqua fortis. The purple or garnet-coloured quartz is next in quantity; lies scattered in exceeding small grains, and strikes fire when ftruck with a fteel. The little black particles of glimmer follow next; and last of all, the transparent crystalline speckles of quartz.

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Bay St. Paul.

quartz. There are some small grains of spar in the lime-stone. All the different kinds of stone are very well mixed together, except that the glimmer now and then forms little veins and lines. The ftone is very hard; but when exposed to fun-shine and the open air, it changes so much as to look quite rotten, and becomes friable; and in that cafe, its constituent particles grow quite undiftinguishable. The mountain is quite full of perpendicular clefts, in which the veins of lead-ore run from E. S. E. to W. N. W. It feems the mountain had formerly got cracks here, which were afterwards filled up with a kind of stone, in which the lead-ore was generated. That stone which contains the lead-oro a foft, white, often semidiaphanous spar, which works very eafily. In it there are fometices stripes of a snowy white lime-stone, and armost always veins of a green kind of stone like quortz. This fpar has many cracks, and divides interfuch pieces as quartz; but is much fofter; never strikes fire with steel, does not effervefce with acids, and is not fmooth to the touch. It feems to be a species of Mr. Professer Wallerius's vitrescent spar *.

• See Wallerius's Mineralogy, Germ. ed. p. 87, Forft, Introd. to Mineralogy, p. 13.

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There are fometimes small pieces of a greyish quartz in this spar, which emit ftrong sparks of fire, when ftruck with a steel. In these kinds of stone the lead ore is lodged. It commonly lies in little lumps of the fize of peas; but fometimes in fpecks of an inch square, or bigger. The ore is very clear, and lies in little cubes *. It is generally very poor, a few places excepted. The veins of foft spar, and other kinds of stone, are very narrow, and commonly from ten to fifteen inches broad. In a few places they are twenty inches broad; and in one fingle place twentytwo and a half. The brook which interfects the mountain towards the mills, runs down fo deep into the mountain, that the distance from the summit of the hill, to the bottom of the brook, is near twelve yards. Here I examined the veins, and found that they always keep the fame breadth, not encreasing near the bottom of the brook; and likewife, that they are no richer below, than at the top. From hence it may be eatily concluded, that it is not worth while finking mines here. Of these veins there are three or four in this neighbourhood, at some distance from each other,

• It is a cubic lead ore, or lead glance. Forfler's Introd. to Mineralogy, p. 51. but cal

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Bay St. Paul.

but all of the fame quality. The veins are almost perpendicular, sometimes deviating a little. When pieces of the green stone before mentioned ly in the water, a great deal of the adherent white spar and lime-stone is confumed; but the green stone remains untouched. That part of the veins which is turned towards the air is always very rough, because the fun, air, and rain, have mouldered a great part of the fpar and lime-stone; but the green stone has relifted their attacks. They fometimes find deep holes in these veins, filled with mountain crystals. The greatest quantity of lead or filver ore is to be found next to the rock, or even on the fides of the vein. There are now and then little grains of pyrites in the spar, which have a fine gold colour. The green stone when pounded, and put on a red-hot shovel, burns with a blue flame. Some fay, they can then obferve a fulphureous fmell, which I could never perceive, though my fense of smelling is very perfect. When this green ftone is grown quite red-hot, it loses its green colour, and acquires a whitish one, but will not effervesce with aqua fortis.

THE fulphureous fprings (if I may fo call them) are at the foot of the mountain, which contains the filver, or lead ore. Se-

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veral springs join here, and form a little brook. The water in those brooks is covered with a white membrane, and leaves a white, mealy matter on the trees, and other bodies in its way; this matter has a strong fulphureous smell. Trees, covered with this mealy matter, when dried and fet on fire, burn with a blue flame, and emit a smell of sulphur. The water does not change by being mixed with gall-apples, nor does it change blue paper into a different colour, which is put into it. It makes no good lather with foap. Silver is tarnished, and turns black, if kept in this water for a little while, The blade of a knife was turned quite black, after it had lain about three hours in it. It has a difagreeable fmell, which, they fay, it fpreads still more in rainy weather. A number of grasshoppers were fallen into it at prefent. The inhabitants used this water, as a remedy against the itch.

In the afternoon we went to see another vein, which had been spoken of as silver ore. It lies about a quarter of a mile to the north-east of bay St. Paul, near a point of land called Cap au Corbeau, close to the shore of the river St. Lawrence. The mountain in which these veins ly, consist of a pale red vitrescent spar, a black glimmer,

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Bay St. Paul.

mer, a pale lime-stone, purple or garnetcoloured grains of quartz, and fome transparent quartz. Sometimes the reddifh vitrefcent fpar is the most abundant, and lies in long firipes of fmall hard grains. Sometimes the fine black glimmer abounds more than the remaining conftituent parts; and these two last kinds of stone generally run in alternate stripes. The white lime-stone which confifts of almost invisible particles, is mixed in among them. The garnetcoloured quartz grains appear here and there, and fometimes form whole fripes. They are as big as pin's heads, round, thining, and strike fire with steel. All these stones are very hard, and the mountains near the fea, confift entirely of them. They fometimes ly in almost perpendicular strata, of ten or fifteen inches thick-The strata, however, point with nefs. their upper ends to the north-west, and go upwards from the river, as if the water. which is close to the fouth-east fide of the mountains, had forced the strata to lean on that fide. These mountains contain very narrow veins of a white, and fometimes of a greenish, fine, semidiaphanous, foft spar, which crumbles eafily into grains. In this fpar they very frequently find specks, which look like a calamine blend.

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blend *. Now and then, and but very feldom, there is a grain of lead-ore. The mountains near the fhore confift fometimes of a black fine-grained horn-ftone, and a ferruginous lime-ftone. The horn-ftone in that cafe is always in three or four times as great a quantity as the lime-ftone.

In this neighbourhood there is likewife afulphurcous fpring, having exactly the fame qualities as that which I have before defcribed. The broad-leaved Reed Mace + grows in the very fpring, and fucceeds extremely well. A mountain-afh ftood near it, whose berries were of a pale yellow fading colour, whereas on all other mountain-afhes they have a deep red colour.

THEY make great quantities of tar at bay St. Paul. We now paffed near a place in which they burn tar, during fummer. It is exactly the fame with ours in Eaft-Bothnia, only fomewhat lefs; though I have been told, that there are fometimes very great manufactures of it here. The tar is made folely of the Pin rouge⁺, or red Pine. All other firs, of which here are feveral kinds, are not fit for this purpofe,

* Forster's Introd. to Mineralogy. p. 50. Zincum sterilum, Lina. Syst. Nat. III. p. 126. Ed. XII.

+ Typba latifolia, Linn.

† Pinus foliis geminis longis; ramis triplici fasciculo, foliorum terminatis, conis ovatis lævibus. Flor. Canad.

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pole, because they do not give tar enough to repay the trouble the people are at. They make use of the roots alone, which are quite full of refin, and which they dig out of the ground; and of about two yards of the stem, just above the root, laying aside all the reft. They have not yet learnt the art of drawing the refin to one fide of the tree, by peeling off the bark; at least they never take this method. The tarbarrels are but about half the fize of ours. A ton holds forty-fix pots, and tells at prefent for twenty-five france at Quebec. The tar is reckoned pretty good.

THE fand on the fhore of the river St. Lawrence, confifts in fome places of a kind of pearl-fand. The grains are of quartz, fmall and femidiaphanous. In fome places it confifts of little particles of glimmer; and there are likewife fpots, covered with the garnet-coloured fand, which I have before defcribed, and which abounds in Canada.

September the 4th. THE mountains hereabouts were covered with a very thick fog to-day, refembling the fmoak of a charcoal kiln. Many of these mountains are very high. During my stay in Canada, I asked many people, who have travelled much in North-America, whether they ever met with mountains so high, that the snow never melts on them in winter; to which they

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they always answered in the negative. They fay that the snow sometimes stays on the highest, viz. on some of those between Canada and the English colonies, during a great part of the summer; but that it melts as soon as the great heat begins.

EVERY countryman fows as much flax as he wants for his own use. They had already taken it up fome time ago, and fpread it on the fields, meadows, and pastures, in order to bleach it. It was very short this year in *Canada*.

THEY find iron-ore in feveral places hereabouts. Almost a Swedi/h mile from bay St. Paul, up in the country, there is a whole mountain full of iron ore. The country round it is covered with a thick forest, and has many rivulets of different fizes, which seem to make the erection of iron-works very easy here. But the government having as yet suffered very much by the iron-works at Trois Rivieres, nobody ventures to propose any thing further in that way.

September the 5th. EARLY this morning we fet out on our return to Quebec. We continued our journey at noon, notwithstanding the heavy rain and thunder we got afterwards. At that time we were just jui nii co he

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Petite Riviere.

just at Petite Riviere, and the tide beginning to ebb, it was impossible for us to come up against it; therefore we lay by here, and went on shore.

Petite Riviere is a little village, on the western side of the river St. Lawrence, and lies on a little rivulet, from whence it takes its name. The houses are built of stone, and are dispersed over the country. Here is likewife a fine little church To the west of the village are of ftone. fome very high mountains, which caufe the fun to fet three or four hours fooner here, than ordinary. The river St. Lawrence annually cuts off a piece of land, on the east fide of the village, fo that the inhabitants fear they will in a fhort time lose all the land they poffers here, which at most is but a musket shot broad. All the houses here are very full of children.

THE lime-flexes on the hills are of two kinds. One is a black one, which I have often mentioned, and on which the town of *Quebec* is built. The other is generally black, and fometimes dark grey, and feems to be a fpecies of the former. It is called *Pierre à chaux* here. It is chiefly diftinguifhed from the former, by being cut very eafily, giving a very white lime, when burnt, and not eafily mouldering into fhivers

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vers in the air. The walls of the houses here are entirely made of this flate; and likewise the chimnies, those places excepted, which are exposed to the greatest fire, where they place pieces of grey rock-ftone, mixed with a deal of glimmer. The mountains near Petite Riviere confift merely of a grey rock-flone, which is entirely the fame with that which I defcribed near the lead-mines of bay St. Paul. The foot of these mountains confists of one of the lime-flate kinds. A great part of the Canada mountains of grey rock-stone ftand on a kind of flate, in the fame manner as the grey rocks of West-Gothland in Sweden.

September the 6th. THEY catch eels and porpeffes here, at a certain fealon of the year, viz. at the end of September, and during the whole month of October. The eels come up the river at that time, and are caught in the manner I have before described. They are followed by the porpeffes, which feed upon them. The greater the quantity of eels is, the greater is likewife the number of porpeffes, which are caught in the following manner. When the tide ebbs in the river, the porpeffes commonly go down along the fides of the river, catching the eels which they find there. 4

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there. The inhabitants of this place therefore flick little twigs, or branches with leaves, into the river, in a curve line or arch, the ends of which look towards the shore, but stand at some distance from it, The branches leaving a paffage there. ftand about two feet distant from each other. When the porpeffes come amongst them, and perceive the rufiling the water makes with the leaves, they dare not venture to proceed, fearing left there should be a fnare, or trap, and endeavour to go back. Mean while the water has receded fo much, that in going back they light upon one of the ends of the arch, whole moving leaves frighten them again. In this confusion they fwim backwards and forwards, till the water is entirely ebbed off, and they ly on the bottom, where the inhabitants kill them. They give a great quantity of train-oil.

NEAR the fhore, is a grey clay, full of ferruginous cracks, and pierced by worms. The holes are fmall, perpendicular, and big enough to admit a middling pin. Their fides are likewife ferruginous, and halfpetrified; and where the clay has been washed away by the water, the rest looks like ocker-coloured stumps of tobacco-pipe tubes.

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AT noon we left Petite Riviere, and continued our journey towards St. Joachim. BETWEEN Petite Riviere, which lies in a little bay, and St. Joachim, the western shore of the river St. Lawrence confists of prominent mountains, between which there are feveral small bays. They have found, by long experience, that there is always a wind on these mountains, even when it is calm at Petite Riviere. And when the wind is pretty high at the last-mentioned place, it is not adviseable to go to Quebec in a boat, the wind and waves, in that cafe, being very high near these mountains. We had at prefent an opportunity of experiencing it. In the creeks between the mountains, the water was almost quite smooth; but on our coming near one of the points formed by the high mountains, the waves encreased, and the wind was so high, that two people were forced to take care of the helm, and the mast broke several times. The waves are likewife greatly encreafed by the ftrong current near those points or capes.

September the 7th. A LITTLE before noon, we continued our voyage from St. Joachim.

THEY employ tree-mushrooms very frequently instead of tinder. Those which are

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Between Petite Riviere and Quebec. 229

are taken from the fugar-maple are reckoned the beft; those of the red maple are next in goodness; and next to them, those of the fugar-birch. For want of these, they likewise make use of those which grow on the asp-tree or tremble.

THERE are no other ever-green trees in this part of *Canada*, than the thuya, the yew, and fome of the fir kind.

THE thuya is effected for relifting putrefaction much longer than any other wood; and next in goodness to it is the pine, called *perusse* here.

THEY make cheefe in feveral places hereabouts. That of the ifle of Orleans is, however, reckoned the beft. This kind is fmall, thin, and round; and four of them weigh about a French pound. Twelve of them fell for thirty fols. A pound of falt butter cofts ten fols at Quebec, and of fresh butter, fifteen fols. Formerly, they could get a pound of butter for four fols here.

THE corn-fields towards the river are floping; they are fuffered to ly fallow and to be fown alternately. The fown ones looked yellow at this diftance, and the fallow ones green. The weeds are left on the latter all furnmer, for the cattle to feed upon.

THE ash wood furnishes the best hoops for tuns here; and for want of it, they take Vol. III. P the

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the thuya, little birch-trees, wild cherrytrees, and others.

THE hills near the river, on the western fide, opposite the ille of Orleans, are very high and pretty fteep. They confift, in most part, of black lime-flate. There are likewife fome spots which consist of a rock-stone, which, at first fight, looks like a fand-stone, and is composed of grey quartz, a reddifh lime-ftone, a little grey lime-ftone," and fome pale grey grains of fand. These parts of the ftone are fmall and pretty equally mixed with each other. The ftone looks red, with a greyish cast, and is very hard. It lies in Arata, one above another. The thickness of each stratum is about five inches. It is remarkable, that there are both elevated and hollow imprefiions of pectinites on the furface, where one likewife meets with the petrified shells themfelves; but on breaking the stone, it does not even contain the least vertige of an imprefion or petrified shell. All the impresfions are small, about the length and breadth of an inch. The particles of quartz in the stone strike fire with steel, and the particles of lime-ftone effervesce strongly with aqua-fortis. The upper and lower furfaces of the strata confist of lime-stone, and the inner parts of quartz. They break great quantities of this stone in

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Montmorenci.

in order to build houses of it, pave floors with it, and make stait-cases of it. Great quantities of it are sent to *Quebec*. It is remarkable, that there are petrefactions in this stone, but never any in the black limeflates.

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THE women dye their woollen yarn yellow with feeds of gale,^{*} which is called *poivrier* here, and grows abundant in wet places.

THIS evening, M. Gaulthier and I went to see the water-fall at Montmorenci. The country near the river is high and level, and laid out into meadows. Above them the high and steep hills begin, which are covered with a cruft of mould, and turned into corn-fields. In fome very steep places, and near the rivulets, the hills confift of mere black lime-flate, which is often crumbled into fmall pieces, like earth. All the fields below the hills are full of fuch pieces of lime-flate. When fome of the larger pieces are broken, they fmell like ftinkstone. In some more elevated places, the earth confifts of a pale red colour; and the time-flates are likewise reddifh.

THE water-fall near Montmorenci is one of the higheft 1 ever faw. It is in a river

Myrica gale. Linn.

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whose breadth is not very considerable, and falls over the steep fide of a hill, confisting entirely of black lime-flate. The fall is now at the bottom of a little creek of the river. Both fides of the creek confift merely of block lime-flate, which is very much cracked and tumbled down. The bill of lime-flate under the water-fall is quite perpendicular, and one cannot look at it without aftonishment. The rain of the preceding days had encreased the water in the river, which gave the fall a grander appear-The breadth of the fall is not above ance. ten or twelve yards. Its perpendicular height. Mr. Gaulthier and I gueffed to be between a hundred and ten and a hundred and twenty feet; and on our return to Quebec, we found our guels confirmed by feveral gentlemen, who had actually measured the fall, and found it to be nearly as we had conjectured. The people who live in the neighbourbood exaggerate in their accounts of it, abfolutely declaring that it is three hundred feet high. Father Charlevoix + is too sparing in giving it only forty feet in height. At the bottom of the fall, there is always a thick fog of vapours, spreading about the water, being refolved into them by its vio-

† See his Hiftoire de la Nouve. France, tom. v. p. m. 100. lent

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This fog occasions almost perpelent fall. tual rain here, which is more or lefs heavy, in proportion to its distance from the fall. Mr. Gaulthier and myself, together with the man who shewed us the way, were willing to come nearer to the falling water, in order to examine more accurately how it came down from fuch a height, and how the stone behind the water looked. But, being about twelve yards off the fall, a fudden guft of wind blew a thick fog upon us, which, in less than a minute, had wet us as thoroughly as if we had walked for half an hour in a heavy fhower. We therefore hurried away as fast as we could, and were glad to get off. The noise of the fall is fometimes heard at Quebec, which is two French miles off to the fouthward; and this is a fign of a north-east wind. At other times, it can be well heard in the villages, a good way lower to the north; and it is then reckoned an undoubted fign of a fouth-weft wind, or of rain. The black lime-flate on the fides of the fall lies in dipping, and almost perpendicular strata. In these limeflate strata, are the following kinds of stone to be met with.

Fibrous gypfum.* This lies in very thin

• Gypfum amiantiforme, Waller. Min. Germ. ed. p. 74. Fibrons or radiated gypfum, Forft. Introd. to Mineralogy, p. 16. P 3 leaves

leaves between the cracks of the lime-flate, Its colour is a fnowy white. I have found it in feveral parts of *Canada*, in the fame black lime-ftone. T the o st bo ga a stral

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Pierre à Calumet. This is the French name of a stone disposed in strata between the lime-flate, and of which they make almost all the tobacco-pipe heads in the coun-The thickness of the strata is diffetry, I have seen pieces near fifteen inches rent. thick; but they are commonly between four and five inches thick. When the stone is long exposed to the open air or heat of the fun, it gets a yellow colour; but in the infide it is grey. It is a lime-ftone of fuch a compactness, that its particles are not diftinguishable by the naked eye. It is pretty foft, and will bear cutting with a knife. From this quality, the people likewife judge of the goodness of the ftone for tobacco-pipe heads ; for the hard pieces of it are not fo fit for use as the softer ones. have feen fome of these stones shivering into thin leaves on the outfide where they were exposed to the fun. All the tobacco-pipe heads, which the common people in Canada make use of, are made of this stone, and are ornamented in different ways. A great part of the gentry likewife make use of them, especially when they are on a journey. The

Montmorenci.

The Indians have employed this ftone for the fame purpoles for feveral ages paft, and have taught it the Europeans. The heads of the tobacco-pipes are naturally of a pale grey colour; but they are blackened whilft they are quite new, to make them look better. They cover the head all over with greafe, and hold it over a burning candle, or any other fire, by which means it gets a good black colour, which is encreafed by frequent ufe. The tubes of the pipes are always made of wood+.

THERE are no coals near this fall, or in the fteep hills close to it. However, the people in the neighbouring village shewed me a piece of coal, which, they faid, they had found on one of the hills about the fall.

WE arrived at Quebec very late at night.

September the 8th. INTERMITTING fevers of all kinds are very rare at Quebec, an Mr. Gaulthier affirms. On the contrary,

↑ All over Poland, Ruffia, Turky, and Tartary, they fmoke out of pipes made of a kind of ftone-marle, to which they fix long wooden tubes; for which latter purpofe, they commonly employ the young fhoots of the various kinds of *fpi*rea, which have a kind of pith eafily to be thruft out. The ftone-marle is called generally fea-fcum, being pretty foft; and by the Tartars, in Crimea, it is called keffekil. And as it cuts fo eafily, various figures are curioufly carved in it, when it is worked into pipe-heads, which often are mounted with filver. F.

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they are very common near Fort St. Frederic, and near Fort Detroit, which is a French colony, between lake Erie and lake Huron, in forty-three degrees north latitude.

SOME of the people of quality make use of ice-cellars, to keep beer cool in, during fummer, and to keep fresh flesh, which would not keep long in the great heat. These ice-cellars are commonly built of stone, under the house. The walls of it are covered with boards, because the ice is more easily confumed by stones. In winter, they fill it with snow, which is beat down with the seet, and covered with water. They then open the cellar holes and the door, to admit the cold. It is customary in summer to put a piece of ice into the water or wine which is to be drank.

All the falt which is made use of here, is imported from *France*. They likewise make good falt here of the sea water; but *France* keeping the falt trade entirely to itfelf, they do not go on with it here.

THE Esquimaux are a particular kind of American lavages, who live only near the water, and never far in the country, on Terra Labrador, between the most outward point of the mouth of the river St. Lawrence and Hudson's bay. I have never had an an hav hav thei hift mou

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an opportunity of feeing one of them. I have fpoken with many *Frenchmen* who have feen them, and had them on board their own veffels. I shall here give a brief history of them, according to their unanimous accounts.

THE Esquimaux are entirely different from the Indians of North-America, in regard to their complexion and their language. They are almost as white as Europeans, and have little eyes: the men have likewife beards. The Indians, on the contrary, are copper-coloured, and the men have no beards. The Esquimaux language is faid to contain fome European words.† Their houses are either caverns or clefts in the mountains, or huts of turf above ground. They never fow or plant vegetables, living chiefly on various kinds of whales, on feals,* and walruffes[‡]. Sometimes they likewife

+ The Moravian brethren in Greenland, coming once over with fome Greenlanders to Terra Labrader, the Ejquimaux ran away at their appearance; but they ordered one of their Greenlanders to call them back in his language. The Ejquimaux hearing his voice, and understanding the language, immediately stopped, came back, and were glad to find a countryman, and wherever they went, among the other Ejquimaux, they gave out, that one of their brethren was returned. This proves the Ejquimaux to be of a tribe different from any European nation, as the Greenland language has no fimilarity with any language in Europe. F.

* Phoca witulina. " Linn.

I Trichechus rojmarus. Linn.

catch

catch land animals, on which they feed. They eat most of their meat quite raw. Their drink is water; and people have likewife feen them drinking the fea water, which was like brine.

THEIR floes, flockings, breeches, and jackets are made of feal-fkins well prepared, and fewed together with nerves of whales, which may be twifted like threads and are very tough. Their cloaths, the hairy fide of which is turned outwards, are fewed together fo well, that they can go up to their shoulders in the water without wetting their under cloaths. Under their upper cloaths, they wear thirts and waistcoats made of feals fkins, prepared fo well as to be quite foft. I faw one of their womens dreffes; a cap, a waiftcoat, and coat, made all of one piece of feals skin well prepared, foft to the touch, and the hair on the out-Their is a long train behind at their fide. coats, which scarce reach them to the middle of the thigh before; under it they wear breeches and boots, all of one piece. The shirt I faw was likewise made of a very foft feals skin. The Esquimaux women are faid to be handsomer than any of the American Indian women, and their hufbands are accordingly more jealcus in proportion.

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I HAVE likewise seen an Esquimaux boat. The outfide of it confifts entirely of fkins, the hair of which has been taken off; and the fides of the fkins on which they were inferted are turned outwards, and feel as fmooth as vellum. The boat was near fourteen feet long, but very narrow, and very sharp pointed at the extremities. In the infide of the boat, they place two or three thin boards, which give a kind of form to the boat. It is quite covered with fkins at the top, excepting, near one end, a hole big enough for a fingle perfon to fit and row in, and keep his thighs and legs under the deck. The figure of the hole refembles a femi-circle, the base or diameter of which is turned towards the larger end of the boat. The hole is furrounded with wood, on which a foft folded skin is fastened, with straps at its upper end. When the Esquimaux makes use of his boat, he puts his legs and thighs under the deck, fits down at the bottom of the boat, draws the skin before mentioned round his body, and fastens it well with the ftraps; the waves may then beat over his boat with confiderable violence, and not a fingle drop comes into it; the cloaths of the Esquimaux keep the wet from him. He has an oar in his hand, which has a paddle at each end; it ferves him for rowing

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rowing with, and keeping the boat in equilibrium during a ftorm. The paddles of the oar are very narrow. The boat will contain but a fingle perfon. *Efquimaux* have often been found fafe in their boats many miles from land, in violent ftorms, where fhips found it difficult to fave themfelves. Their boats float on the waves like bladders, and they row them with incredible velocity. I am told, they have boats of different fhapes. They have likewife larger boats of wood, covered with leather in which feveral people may fit, and in which their women commonly go to fea.

Bows and arrows, javelins and harpoons, are their arms. With the laft they kill whales, and other large marine animals. The points of their arrows and harpoons are fometimes made of iron, fometimes of bone, and fometimes of the teeth of the walrufs. Their quivers are made of feals fkins. The needles with which they fow their cloaths are likewife made of iron or of bone. All their iron they get by fome means or other from the Europeans.

THEY fometimes go on board the European thips in order to exchange fome of their goods for knives and other iron. But it is not adviseable for Europeans to go on thore, unless they be numerous; for the Ef-

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Esquimaux are false and treacherous, and cannot suffer strangers amongst them. If they find themselves too weak, they run away at the approach of ftrangers; but if they think they are an over-match for them, they kill all that come in their way, without leaving a fingle one alive. The Europeans, therefore, do not venture to let a greater number of Efquimaux come on board their ships than they can easily master. If they are ship-wrecked on the Esquimaux coafts, they may as well be drowned in the fea as come fafe to the fhore : this many Europeans have experienced. The European boats and thips which the Elquimaux get into their power, are immediately cut in pieces and robbed of all their nails and other iron, which they work into knives, needles, arrow-heads, &c. They make use of fire for no other purposes but working of iron, and preparing the fkins of animals. Their meat is eaten all raw. When they come on board an European ship, and are offered some of the failors meat, they never will tafte of it till they have feen fome Europeans eat it. Though nothing pleased other favage nations fo much as brandy, yet many Frenchmen have affured me, that they never could prevail on the Esquimaux to take a dram of it. Their mistruit of other nations is

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the cause of it; for they undoubtedly imagine, that they are going to poifon them, or do them fome hurt; and I am not certain, whether they do not judge right. They have no ear-rings, and do not paint the face like the American Indians. For many centuries past, they have had dogs, whole ears are crected, and never hang down. They make use of them for hunting, and instead of horses in winter, for drawing their goods on the ice. They themselves sometimes ride in sledges drawn by dogs. They have no other domeftic animal. There are, indeed, plenty of reindeer in their country; but it is not known, that either the Esquimaux, or any of the Indians in America, have ever tamed them. The French in Canada, who are in a manner the neighbours of the Esquimaux, have taken a deal of pains to carry on fome kind of trade with them, and to endeavour to engage them to a more friendly intercourse with other nations. For that purpofe, they took fome Efquimaux children, taught them to read, and educated them in the best manner possible. The intention of the French was, to fend these children to the Elquimaux again, that they might inform them of the kind treatment the French had given them, and thereby incline them to con-

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conceive a better opinion of the French. But unhappily all the children died of the fmall-pox, and the scheme was dropt. Many perfons in Canada doubted, whether the scheme would have succeeded, though the children had been kept alive. For they fay, there was formerly an Elquimaux taken by the French, and brought to Canada, where he staid a good while, and was treated with great civility. He learnt French pretty well, and feemed to relifh the French way of living very well. When he was fent back to his countrymen, he was not able to make the least impression on them, in favour of the French; but was killed by his nearest relations, as half a Frenchman and foreigner. This inhuman proceeding of the Esquimaux against all strangers, is the reason why none of the Indians of North America ever give quarter to the Esquimaux if they meet with them, but kill them on the fpot; though they frequently pardon their other enemies, and incorporate the prifoners into their nation.

For the use of those, who are fond of comparing the languages of several nations, I have here inserted a few Esquimaux words, communicated to me by the Jesuit Saint Pie. One, kombuc; two, tigal; three, ké; four, missingat; water, fillalokto; rain, killa-

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killaluck; heaven, taktuck, or nabugakshe; the sun, shikonak, or sakaknuk; the moon, takock; an egg, manneguk; the boat, kagack; the oar, pacotick; the knife, shavié; a dog, mekké, or timilok; the bow, petikfick; an arrow, katso; the head, niakock; the ear, tchiu; the eye, killik, or shik; the hair, nutshad; a tooth, ukak; the foot, itikat. Some think that they are nearly the same nation with the Greenlanders, or Skralingers; and pretend that there is a great affinity in the language *.

PLUMB-TREES of different forts, brought over from France, fucceed very well here. The prefent year they did not begin to flower till this month. Some of them looked very well; and I am told the winter does not hurt them.

September the 11th. THE marquis de la Galiffonniere is one of the three noblemen, who, above all others, have gained high efteem with the French admiralty in the last war. They are the marquisse de la Galiffonniere, de la Jonquiere, and de l'E-

* The above account of the Elquimanx may be compared with Henry Ellis's Account of a Voyoge to Hudson's Bay, by the Dobbs Ga ley and California, &cc. and The Account of a Voyage for the Discovery of a North West Passage by Hudson's Streights, by the Clerk of the California. Two Vols. 8vo. And lastly, with Crantz's History of Greenland. Two V. Is. 8ve. F.

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The first of these was now above tendure. fifty years of age, of a low stature, and fomewhat hump-backed, but of a very agreeable look. He had been here for fome time as governor-general; and was going back to France one day this month. I have already mentioned fomething concerning this nobleman; but when I think of his many great qualities, I can never give him a sufficient encomium. He has a surprizing knowledge in all branches of fcience, and especially in natural history; in which he is fo well verfed, that when he began to speak with me about it, I imagined I faw our great Linnæus under a new form. When he spoke of the use of natural history, of the method of learning, and employing it to raile the state of a country, I was aftonished to see him take his reasons from politics, as well as natural philosophy, mathematics, and other fciences. I own, that my conversation with tilis nobleman was very inftructive to me; and I always drew a deal of useful knowledge from it. He told me feveral ways of employing natural hiftory to the purposes of politics, and to make a country powerful, in order to depress its envious neighbours. Never has natural hiftory had a greater promoter in this country; and it VOL. III. is

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is very doubtful whether it will ever have his equal here. As foon as he got the place of governor-general, he began to take those measures for getting information in natural history, which I have mentioned before. When he faw people, who had for fome time been in a settled place of the country, especially in the more remote parts, or had travelled in those parts, he always queftioned them about the trees, plants, earths, stones, ores, animals, &c. of the place. He likewife enquired what use the inhabitants made of these things; in what state their husbandry was ; what lakes, rivers, and passages there are; and a number of other particulars. Those who seemed to have clearer notions than the reft, were obliged to give him circumstantial descriptions of what they had feen. He himfelf wrote down all the accounts he received; and by this great application, fo uncommon among perfons of his rank, he foon acquired a knowledge of the most distant parts of The priests, commandants of America. forts, and of several distant places, are often furprized by his questions, and wonder at his knowledge, when they come to Quebec to pay their vifits to him; for he often tells them that near fuch a mountain, or on fuch a shore, &c. where they often went a hunting,

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a g, hunting, there are fome particular plants, trees, earths, ores, &cc. for he had got a knowledge of those things before. From hence it happened, that fome of the inhabitants believed he had a preternatural knowledge of things, as he was able to mention all the curiofities of places, fometimes near two hundred Swedish miles from Quebec, though he never was there himfelf. Never was there a better statesman than he ; and nobody can take better measures, and choose more proper means for improving a country, and encreasing its welfare. Canada was hardly acquainted with the treafure it possessed in the person of this nobleman, when it loft him again; the king wanted his fervices at home, and could not leave him to far off. He was going to France with a collection of natural curiofities; and a quantity of young trees and plants, in boxes full of earth.

THE black lime-flate has been repeatedly mentioned during the courfe of my journey. I will here give a more minute detail of it. The mountain on which Quebec is built, and the hills along the river St. Lawrence, confift of it for fome miles together, on both fides of Quebec. About a yard from the furface, this ftone is quite compact, and without any cracks; fo that

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one cannot perceive that it is a flate, its particles being imperceptible. It lies in strata, which vary from three or four inches, to twenty thick, and upwards. In the mountains on which Quebec is built, the strata do not ly horizontal, but dipping, fo as to be nearly perpendicular; the upper ends pointing north-weft, and the lower ones fouth-east. From hence it is, that the corners of these strata always strike out at the furface into the ftreets, and cut the shoes in pieces. I have likewise seen some strata, inclining to the northward, but nearly perpendicular as the former. Horizontal strata, or nearly fuch, have occurred to me too. The strata are divided by narrow cracks, which are commonly filled with fibrous white gypfum, which . can fometimes be got loofe with a knife, if the layer or stratum of flate above it is broken in pieces; and in that cafe it has the appearance of a thin white leaf. The larger cracks are almost filled up with transparent quartz crystals, of different fizes. One part of the mountain contains vaft quantities of these crystals, from which the corner of the mountain which lies to the S. S. E. of the palace, has got the name of Pointe de Diamante, or Diamond Point. The fmall cracks which divide the ftone, go

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go generally at right angles; the diffances between them are not always equal. The outfide of the stratum, or that which is turned towards the other ftratum, is frequently covered with a fine, black, fhining membrane, which looks like a kind of a pyrous horn-stone. In it there is sometimes a yellow pyrites, always lying in fmall grains. I never found petrefactions or imprefiions, or other kinds of stone in it, befides those I have just mentioned. The whole mountain on which Quebec is fituated, confifts entirely of lime-flate from top to bottom. When this stone is broken, or scraped with a knife, it gives a ftrong fmell like the fink-ftone. That part of the mountain which is exposed to the open air, crumbles into fmall pieces, had loft their black colour, and got a pale red one in its ftead. Almost all the public and private buildings at Quebec confift of this lime-flate; and likewife the walls round the town, and round the monasteries and gardens. It is eafily broken, and cut to the fize wanted. But it has the property of splitting into thin shivers, parallel to the furface of the ftratum from whence they are taken, after lying during one or more years in the air, and exposed to the fun. However, this quality does no da-Q 3 mage

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mage to the walls in which they are placed; for the ftones being laid on purpose into fuch a position that the cracke always run horizontally, the upper stones press so much upon the lower ones, that they can only get cracks outwardly, and shiver only on the outside, without going further inwards. The shivers always grow thinner, as the houses grow older.

In order to give my readers fome idea of the climate of Quebec, and of the different changes of heat and cold, at the feveral feafons of the year, I will here infert fome particulars extracted from the meteorological observations, of the royal physician; Mr. Gaulthier: he gave me a copy of those which he had made from October 1744, to the end of September 1746. The thermometrical observations I will omit, because I do not think them accurate; for as Mr. Gaulthier made use of de la Hire's thermometer, the degrees of cold cannot be exactly determined, the quickfilver being depressed into the globe at the bottom, as foon as the cold begins to be confiderable. The observations are made throughout the year, between feven and eight in the morning, and two and three in the afternoon. He has feldom made any obfervations in the afternoon. His thermometer

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ter was likewife inaccurate, by being placed in a bad fituation.

The year 1745.

January. THE 29th of this month the river St. Lawrence was covered over with ice, near Quebec. In the observations of other years, it is observed, that the river is sometimes covered with ice in the beginning of January, or the end of December.

February. NOTHING remarkable happend during the course of this month.

March. THEY fay this has been the mildeft winter they ever felt; even the eldeft perfons could not remember one fo mild. The fnow was only two feet deep, and the ice in the river, opposite Quebec, had the fame thicknefs. On the twentyfirst there was a thunder-storm, which fell upon a foldier, and hurt him very much. On the 19th and 20th, they began to make incifions into the fugar-maple, and to prepare fugar from its juice.

April. DURING this month they continued to extract the juice of the fugarmaple, for making fugar. On the 7th the gardeners began to make hot-beds. On the 20th the ice in the river broke loofe near Quebec, and went down; which rarely happens fo foon; for the river St.

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Lawrence is fometimes covered with ice opposite Quebec, on the 10th of May. On the 22d, and 23d, there fell a quantity of fnow. On the 25th they began to fow near St. Joachim. The fame day they faw fome fwallows. The 29th they fowed corn all over the country. Ever fince the 23d the river had been clear at Quebec.

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May. The third of this month the cold was fo great in the morning, that Celfius's, or the Swedish thermometer, was four degrees below the freezing point; however, it did not hurt the corn. On the 16th all the fummer-corn was fown. On the 5th the Sanguinaria, Narcisfus, and violet, began to blow. The 17th the wild cherry-trees, rafberry-bushes, apple-trees, and lime-trees, began to expand their leaves. The strawberries were in flower about that time. The 29th the wild cherry-trees were in blosson. On the 26th part of the French apple-trees, cherry-trees, and plum-trees, opened their flowers.

June. THE 5th of this month all the trees had got leaves. The apple-trees were in full flower. Ripe ftraw-berries were to be had on the 22d. Here it is noted, that the weather was very fine for the growth of vegetables.

July. THE corn began to shoot into ears on the 12th, and had ears every where on

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on the 21ft. (It is to be observed, that they sow nothing but summer-corn here.) Soon after the corn began to flower. Hay making began the 22d. All this month the weather was excellent.

August. On the 12th there were ripe pears and melons at Montreal. On the 20th the corn was ripe round Montreal, and the harvest was begun there. On the 22d the harvest began at Quebec. On the 30th, and 31st, there was a very small hoar-frost on the ground.

September. THE harvest of al' kinds of corn ended on the 24th, and 25th. 'Melons, water-melons, cucumbers, and fine plums, were very plentiful during the course of this month. Apples and pears were likewise ripe, which is not always the cafe. On the last days of this month they began to plough the land. The following is one of the observations of this month: "The old people in this country " fay, that the corn was formerly never " ripe till the 15th, or 16th, of September, " and fometimes on the 12th; but no " fooner. They likewife affert, that it " never was perfectly ripe. But fince the " woods have been fufficiently cleared, the " beams of the fun have had more room " to operate, and the corn ripens fooner c than

" than before "." It is further remarked, that the hot fummers are always very fruitful

* It is not only the clearing of woods, but cultivation, and population, that alter the climate of a country, and make it mild. The Romans looked upon the winters of Germany and England as very fevere, but happily both countries have at prefent a much more mild climate than formerly, owing to the three above mentioned reasons. Near Petersburg, under fixty degrees north latitude, the river Neva was covered with ice 1765, in the beginning of December, and cleared of it April the 11th 1766. At Tfaritfin, which is under forty-eight degrees forty minutes north latitude, the river Volga was covered with ice the 26th of November 1765, and the ice broke in the river April the 27th 1766, (all old stile). Is it not almost incredible, that in a place very near twelve degrees more to the fouth, the effects of cold should be felt longer, and more feverely, than in the more northern climate. And though the neigh-Lourhood of Peterfburg has a great many woods, the cold was, however, less severe, and lasting; Tfaritfin on the contrary has no woods for many hundred miles in its neighbourhood, if we except fome few trees and bushes, along the Volga and its ifles, and the low land along it. Whereever the eye looks to the east, there are vast plains without woods, for many hundred miles. The clearing a country of woods, cannot therefore alone contribute fo much to make the climate milder, But cultivation does more. On a ploughed field the fnow will always fooner melt, than on a field covered with grafs. The inflammable warm per-ticles brought into the field, by the various kinds of manure, contribute much to foften the rigours of the climate; but the exhalations of thousands of men and cattle, in a populous country, the burning of fo many combustibles, and the dispersion of so many caustic particles, through the whole athmosphere; these are things which contribute fo much towards fostening the rigours of a climate. In a hundred square miles near Tjaritfin, there is not fo much cultivated land as there is within ten near Petersburg; it is in proportion to the number of the inhabitans of both places, and

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ful in Canada, and that most of the corn has hardly ever arrived at perfect maturity.

October. DURING this month the fields were ploughed, and the weather was very fine all the time. There was a little froft for feveral nights, and on the 28th it fnowed. Towards the end of this month the trees began to fhed their leaves.

November. THEY continued to plough till the 10th of this month, when the trees had fhed all their leaves. Till the 18th the cattle went out of doors, a few days excepted, when bad weather had kept them at home. On the 16th there was fome thunder and lightning. There was not yet any ice in the river St. Lawrence on the 24th.

December. DURING this month it is observed, that the autumn has been much milder than usual. On the 1st a ship could still set fail for France; but on the 16th the river St. Lawrence was covered with ice on the sides, but open in the middle. In

and this makes the chief difference of the climate. There is ftill another confideration, *Peterfburg* lies near the fea, and *Tfaritfin* in an inland country; and, generally fpeaking, countries near the fea have been obferved to enjoy a milder climate. Thefe few remarks will be, I believe, fufficient to enable every body to judge of the changes of the climate in various countries, which, no doubt, grow warmer and more temperate, as cultivation and population increase. F.

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In the river Charles the ice was thick enough for horfes with heavy loads to pafs over it. On the 26th the ice in the river St. Lawrence was washed away by a heavy rain; but on the 28th part of that river was again covered with ice.

THE next observations shew, that the winter has likewise been one of the mildest. I now resume the account of my own journey.

This evening I left Quebec with a fair wind. The governor-general of Canada, the marquis de la Jonquiere, ordered one of the king's boats, and feven men to bring me to Montreal. The middle of the boat was covered with blue cloth, under which we were fecured from the rain. This journey I made at the expence of the French king. We went three French miles to-day. September the 12th. WE continued our

journey during all this day.

THE small kind of maize, which ripens in three months time, was ripe about this time, and the people drew it out of the ground, and hung it up to dry.

THE weather about this time was like the beginning of our *August*, old ftile. Therefore it seems, autumn commences a whole month later in *Canada*, than in the midst of *Sweden*.

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NEAR each farm there is a kitchengarden, in which onions are most abundant; because the French farmers cat their dinners of them with bread, on Fridays and Saturdays, or fasting days. However, I cannot fay, the French are ftrict observers of fasting; for several of my rowers ate flesh to-day, though it was Friday. The common people in Canada may be fmelled when one paffes by them, on account of their frequent use of onions. Pumpions are likewise abundant in the farmer's gardens. They drefs them in feveral ways, but the most common is to cut them through the middle, and place the infide on the hearth, towards the fire, till it is quite roafted. The pulp is then cut out of the peel, and eaten; people above the vulgar put sugar to it. Carrots, fallad, French beans, cucumbers, and currant shrubs, are planted in every farmer's little kitchen-garden.

EVERY farmer plants a quantity of tobacco near his house, in proportion to the fize of his family. It is likewise very neceffary that they should plant tobacco, because it is so universally smoaked by the common people. Boys of ten or twelve years of age, run about with the pipe in their mouths, as well as the old people. Perfors

Perfons above the vulgar, do not refufe to fmoak a pipe now and then. In the northern parts of *Canada*, they generally fmoak tobacco by itfelf; but further upwards, and about *Montreal*, they take the inner bark of the red Cornelian cherry *, crufh it, and mix it with the tobacco, to make it weaker. People of both fexes, and of all ranks, ufe fnuff very much. Almoft all the tobacco, which is confumed here, is the produce of the country, and fome people prefer it even to *Virginian* tobacco: but thofe who pretend to be connoiffeurs, reckon the laft kind better than the other.

THOUGH many nations imitate the French cuftoms; yet I observed on the contrary, that the French in Canada in many respects follow the customs of the Indians, with whom they converse every day. They make use of the tobacco-pipes, shoes, garters, and girdles, of the Indians. They follow the Indian way of making war with exactness; they mix the same things with tobacco; they make use of the Indian barkboats, and row them in the Indian way; they wrap square pieces of cloth round their feet, instead of stockings, and have adopted many other Indian fashions. When

* Cornus Sanguinea, Linn.

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one comes into the house of a Canada peafant, or farmer, he gets up, takes his hat off to the stranger, defires him to fit down, puts his hat on and fits down again. The gentlemen and ladies, as well as the poorest peasants and their wives, are called *Monsieur* and *Madame*. The peasants, and especially their wives, wear shoes, which confiss of a piece of wood hollowed out, and are made almost as slippers. Their boys, and the old peasants themselves, wear their hair behind in a cue; and most of them wear red wellen caps at home, and sometimes on their journies.

THE farmers prepare most of their dishes Butter is but feldom feen, and of milk. what they have is made of four cream, and therefore not fo good as English butter. Many of the French are very fond of milk, which they eat chiefly on fafting days. However, they have not fo many methods of preparing it as we have in Swe-The common way was to boil it, den. and put bits of bread, and a good deal of fugar, into it. The French here cat near as much flesh as the English, on those days when their religion allows it. For excepting the foup, the fallads, and the defert, all their other dishes confist of flesh varioufly prepared.

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AT night we lay at a farm-house, near a river called *Petite Riviere*, which falls here into the river St. Lawrence. This place is reckoned fixteen French miles from Quebec, and ten from Trois Rivieres. The tide is ftill confiderable here. Here is the last place where the hills, along the river, confist of black lime-flate; further on they are composed merely of earth.

FIRE-FLIES flew about the woods at night, though not in great numbers; the French call them Mouches à feu.

THE houfes in this neighbourhood are all made of wood. The rooms are pretty large. The inner roof refts on two, three, or four, large thick fpars, according to the fize of the room. The chinks are filled with clay, inftead of mofs. The windows are made entirely of paper. The chimney is erected in the middle of the room; that part of the room which is oppofite the fire, is the kitchen; that which is behind the chimney, ferves the people to fleep, and receive ftrangers in. Sometimes there is an iron flove behind the chimney.

September the 13th. NEAR Champlain, which is a place about five French miles from Trois Rivieres, the steep hills near the river confist of a yellow, and sometimes ockre-coloured fandy earth, in which a numfq

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Between Quebec and Trois Rivieres. 257

a number of small springs arise. The water in them is generally filled with yellow ockre, which is a fign, that these dry fandy fields contain a great quantity of the fame iron ore, which is dug at Trois Rivieres. It is not conceivable from whence that number of small rivulets takes their rife, the ground above being flat, and exceeding dry in The lands near the river are fummer. cultivated for about an English mile into the country; but behind them there are thick forefts, and low grounds. The woods, which collect a quantity of moisture, and prevent the evaporation of the water, force it to make its way under ground to the river. The shores of the river are here covered with a great deal of black ironfand.

TowARDS evening we arrived at Trois Rivieres, where we staid no longer, than was necessary to deliver the letters, which we brought with us from Quebec. After that we went a French mile higher up, before we took our night's lodging.

THIS afternoon we faw three remarkable old people. One was an old Jesuit, called father *Joseph Aubery*, who had been a missionary to the converted *Indians* of St. François. This summer he ended the fiftieth year of his mission. He therefore Vol. III. R returned

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returned to Quebec, to renew his vows there; and he feemed to be healthy, and in good spirits. The other two people were our landlord and his wife; he was above eighty years of age, and the was not much younger. They had now been fiftyone years married. The year before, at the end of the fiftieth year of their marriage, they went to church together, and offered up thanks to God Almighty for the great grace he gave them. They were yet quite well, content, merry, and talk-The old man faid, that he was at ative. Quebec when the English belieged it, in the year 1690, and that the bishop went up and down the ftreets, dreffed in his pontifical robes, and a fword in his hand, in order to recruit the spirits of the soldiers.

THIS old man faid, that he thought the winters were formerly much colder than they are now. There fell likewife a greater quantity of fnow, when he was young. He could remember the time when pumpions, cucumbers, & were killed by the froft about mid-fummer, and he affured me, that the fummers were warmer now than they ufed to be formerly. About thirty and fome odd years ago, there was fuch a fevere winter in *Canada*, that the froft killed many birds; but the old man could

Between Trois Rivieres and Montreal. 259

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could not remember the particular year, Every body allowed, that the fummers in 1748, and 1749, had been warmer in Canada than they have been many years ago. THE foil is reckoned pretty fertile; and wheat yields nine or ten grains from one. But when this old man was a boy, and the country was new and rich every where, they could get twenty, or four-and-twenty, grains from one. They fow but little rye here; nor do they fow much barley, except for the use of cattle. They complain, however, that when they have a bad crop, they are obliged to bake bread of barley.

September the 14th. THIS morning we got up early, and purfued our journey. After we had gone about two French miles, we got into lake St. Pierre, which we croffed. Many plants, which are common in our Swedifb lakes, fwim at the top of this water. This lake is faid to be covered every winter with fuch ftrong ice, that a hundred loaded horfes could go over it together with fafety.

A CRAW-FISH, or river lobiter, fomewhat like a crab, but quite minute, about two geometrical lines long, and broad in proportion, was frequently drawn up by us with the aquatic weeds. Its colour is a pale greenish white.

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THE cordated *Pontederia* * grows plentiful on the fides of a long and narrow canal of water, in the places frequented by our water-lilies **†**. A great number of hogs wade far into this kind of ftrait, and fometimes duck the greatest part of their bodies under water, in order to get at the roots, which they are very fond of.

As foon as we were got through lake St. Pierre, the face of the country was entirely changed, and became as agreeable as could be wished. The isles, and the land on both fides of us, looked like the prettiest pleasure-gardens; and this continued till near Montreal.

NEAR every farm on the river-fide there are fome boats, hollowed out of the trunks of fingle trees, but commonly neat and well made, having the proper fhape of boats. In one fingle place I faw a boat made of the bark of trees.

September the 15th. WE continued our journey early this morning. On account of the ftrength of the river, which came down against us, we were fometimes obliged to let the rowers go on fhore, and draw the boat.

- * Pontederia cordata Linn.
- + Nymphae.

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At four o'clock in the evening we artived at *Montreal*; and our voyage was reckoned a happy one, because the violence of the river flowing against us all the way, and the changeableness of the winds, commonly protract it to two weeks.

September the 19th. Several people here in town have got the French vines, and planted them in their gardens. They have two kinds of grapes, one of a pale green, or almost white; the other, of a reddish brown colour. From the white ones they fay, white wine is made; and from the red ones, red wine. The cold in winter obliges them to put dung round the roots of the vines, without which they would be killed by the froft. The grapes began to be ripe in these days; the white ones are a little fooner ripe than the red ones. They make no wine of hem here, because it is not worth while; but they are ferved up at deferts. They fay these grapes do not grow fo big here as in France.

WATER-MELONS * are cultivated in great plenty in the Englifb and French American colonies; and there is hardly a peafant here, who has not a field planted with them. They are chiefly cultivated in the

• Cucurbita citrullus Linn.

neigh-

neighbourhood of towns; and they are very rare in the north part of Canada. The Indians plant great quantities of water-melons at prefent; but whether they have done it of old is not eafily determined. For an old Onidoe Indian (of the fix Iroquese nations) affured me, that the Indians did not know water-melons before the Europeans came into the country, and communicated them to the Indians. The French, on the other, hand, have affured me, that the Illinois Indians have had abundance of this fruit, when the French first came to them; and that they declare, they had planted them fince times immemorial. However, I do not remember having read that the Europeans, who first came to North-America, mention the water-melons, in speaking of the dishes of the Indians at that time. How great the fummer heat is in those parts of America which I have paffed through, can eafily be conceived, when one confiders, that in all those places, they never fow water-melons in hot-beds, but in the open fields in fpring, without fo much as covering them, and they ripen in time. Here are two species of them, viz. one with a red pulp, and one with a white one. The first is more common to the fouthward, with the Illinois, and in the English

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English colonies; the last is more abundant The feeds are fown in fpring, in Canada. after the cold is entirely gone off, in a good rich ground, at some distance from each other; because their stalks spread far, and require much room, if they shall be very fruitful. They were now ripe at Montreal; but in the English colonies they ripen in July and August. They commonly require lefs time to ripen in, than the common melons. Those in the English colonies are commonly fweeter, and more agreeable, than the Canada ones. Does the greater heat contribute any thing towards making them more palatable? Those in the province of New-York are, however, reckoned the beft.

THE water-melons are very juicy; and the juice is mixed with a cooling pulp, which is very good in the hot fummer-fea-Nobody in Canada, in Albany, and fon. in other parts of New-York, could produce an example, that the eating of water-melons in great quantities had hurt any body; and there are examples even of fick perfons eating them without any danger. Further to the fouth, the frequent use of them it is thought brings on intermitting fevers, and other bad diftempers, especially in such people as are lefs used to them. Many R 4 French -

Frenchmen affured me, that when people born in Canada came to the Illinois, and eat feveral times of the water-melons of that part, they immediately got a fever; and therefore the Illinois advise the French not to eat of a fruit fo dangerous to them. They themselves are subject to be attacked by fevers, if they cool their ftomachs too often with water-melons. In Canada they keep them in a room, which is a little heated; by which means they will keep fresh two months after they are ripe; but care must be taken, that the frost spoil them not. In the English plantations they likewise keep them fresh in dry cellars, during part of the winter. They affured me that they keep better when they are carefully broke off from the stalk, and afterwards burnt with a red-hot iron, in the place where the stalk was fastened. In this manner they may be eaten at Christmas, and after. In Penfylvania, where they have a dry fandy earth, they make a hole in the ground, put the water-melons carefully into it with their stalks, by which means they keep very fresh during a great part of winter. Few people, however, take this trouble with the water-melons; becaufe they being very cooling, and the winter being very cold too, it feems to be lefs neceffary to keep

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keep them for eating in that feason, which is already very cold. They are of opinion in these parts, that cucumbers cool more than water-melons. The latter are very strongly diuretic. The *Iroquese* call them Onoheserakatee.

Gourds of feveral kinds, oblong, round, flat or compressed, crook-necked, small, &c. are planted in all the English and French colonies. In Canada, they fill the chief part of the farmers kitchen-gardens, though the onions came very near up with them. Each farmer in the English plantations, has a large field planted with gourds, and the Germans, Swedes, Dutch, and other Europeans, fettled in their colonies, plant them. Gourds are a confiderable part of the Indian food ; however, they plant more squashes than common gourds. They declare, that they have had gourds long before the Europeans discovered America; which seems to be confirmed by the accounts of the first Europeans that came into these parts, who mentioned gourds as common food among The French here call them the Indians. citrouilles, and the English in the colonies, pumpkins. They are planted in fpring, when they have nothing to fear from the froft, in an enclosed field, and a good rich foil. They are likewife frequently put into old hot-

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hot-beds. In Canada, they ripen towards the beginning of September, but further fouthward they are ripe at the end of July. As focu as the cold weather commences, they take our all the pumpions that remain on the stalk, whether ripe or not, and spread them on the floor, in a part of the house, where the unripe ones grow perfectly ripe, if they are not laid one upon the other. This is done round Montreal in the middle of September; but in Penfylvauia, I have feen fome in the fields on the 19th of October. They keep fresh for several months, and even throughout the winter, if they be well fecured in ary cellars (for in damp ones they rot very foon) where the cold cannot come in, or, which is still better, in dry rooms which are heated now and then, to prevent the cold from damaging the fruit.

PUMPIONS are prepared for eating in various ways. The *Indians* boil them whole, or roaft them in afhes, and eat them then, or go to fell them thus prepared in the towns, and they have, indeed, a very fine flavour, when roafted. The *French* and *Englifh* flice them, and put the flices before the fire to roaft; when they are roafted, they generally put fugar on the pulp. Another way of roafting them, is to cut them through the middle, take out all the feeds, put the halves together again, and roaft them in an oven.

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oven. When they are quite roafted, fome butter is put in, whill they are warm, which being imbibed into the pulp, renders it very palatable. They often boil pumpions in water, and afterwards eat them, either alone or with flesh. Some make a thin kind of pottage of them, by boiling them in water, and afterwards macerating the pulp. This is again boiled with a little of the water, and a good deal of milk, and ftirred about whilft it is boiling. Sometimes the pulp is stamped and kneaded into dough, with maize flour or other flour; of this they make cakes. Some make puddings and tarts of gourds. The Indians, in order to preferve the pumpions for a very long time, cut them in long flices, which they fasten or twist together, and dry them either by the fun, or by the fire in a room. When they are thus dried, they will keep for years together, and when boiled, they tafte very well. The Indians prepare them thus at home and on their journies, and from them the Europeans have adopted this method: Sometimes they do not take the time to boil it, but eat it dry with hung beef, or other flesh; and I own they are eatable in that state, and very welcome to a hungry They fometimes preferve them ftomach. in the following manner at Montreal: They cut

cut a pumpion in four pieces, peal them, and take the feeds out of them. The pulp is put in a pot with boiling water, in which it must boil from four to fix minutes. It is then put into a cullender, and left in it till the next day, that the water may run off. When it is mixed with cloves, cinnamon, and fome lemon peel, preferved in fyrup, and there must be an equal quantity of fyrup and of the pulp. After which it is boiled together, till the fyrup is entirely imbibed, and the white colour of the pulp is quite loft.

September the 20th. THE corn of this year's harveft in Canada, was reckoned the fineft they had ever had. In the province of New-York, on the contrary, the crop was very poor. The autumn was very fine this year in Canada.

September the 22d. THE French in Canada carry on a great trade with the Indians; and though it was formerly the only trade of this extensive country, yet its inhabitants were confiderably enriched by it. At prefent, they have befides the Indian goods, feveral other articles which are exported from hence. The Indians in this neighbourhood, who go hunting in winter like the other Indians nations, commonly bring their furs and fkins to fale in the neighbouring French

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French towns ; however this is not fufficient. The Indians who live at a greater distance, never come to Canada at all; and, left they should bring their goods to the English, as the English go to them, the French are obliged to undertake journies, and purchase the Indian goods in the country of the Indians. This trade is chiefly carried on at Montreal, and a great number of young and old men every year, undertake long and troublefome voyages for that purpole, carrying with them fuch goods as they know the Indians like, and are in want of. It is not necessary to take money on fuch a journey, as the Indians do not value it; and indeed I think the French, who go on these journies, scarce ever take a folor penny with them.

I wILL now enumerate the chief goods which the French carry with them for this trade, and which have a good run among the Indians.

Mufkets, Powder, Shot, and Balls. The Europeans have taught the Indians in their neighbourhood the use of fire-arms, and they have laid afide their bows and arrows, which were formerly their only arms, and make use of nuskets. If the Europeans should now refuse to supply the Indians with muskets, they would be starved to death; 25

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as almost all their food confists of the flesh of the animals, which they hunt; or they would be irritated to fuch a degree as to attack the Europeans. The Indians have hitherto never tried to make muskets or fimilar fire-arms; and their great indolence does not even allow them to mend those muskets which they have got. They leave this entirely to the Europeans. As the Europeans came into North-America, they were very careful not to give the Indians any firearms. But in the wars between the French and English, each party gave their Indian allies fire-arms, in order to weaken the force of the enemy. The French lay the blame upon the Dutch fettlers in Albany, faying, that they began, in 1642, to give their Indians fire-arms, and taught them the use of them, in order to weaken the French. The inhabitants of Albany, on the contrary, affert, that the French first introduced this custom, as they would have been too weak to refift the combined force of the Dutch and English in the colonies. Be this as it will, it is certain that the Indians buy muskets from the Europeans, and know at prefent better how to make use of them, than fome of their teachers. It is likewise certain, that the Europeans gain confiderably

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confiderably by their trade in muskets and ammunition.

Pieces of white cloth, or of a coarfe uncut cloth. The Indians constantly wear fuch pieces of cloth, wrapping them round their bodies. Sometimes they hang them over their shoulders; in warm weather, they fasten them round the middle; and in cold weather, they put them over the head. Both their men and women wear these pieces of cloth, which have commonly feveral blue or red stripes on the edge.

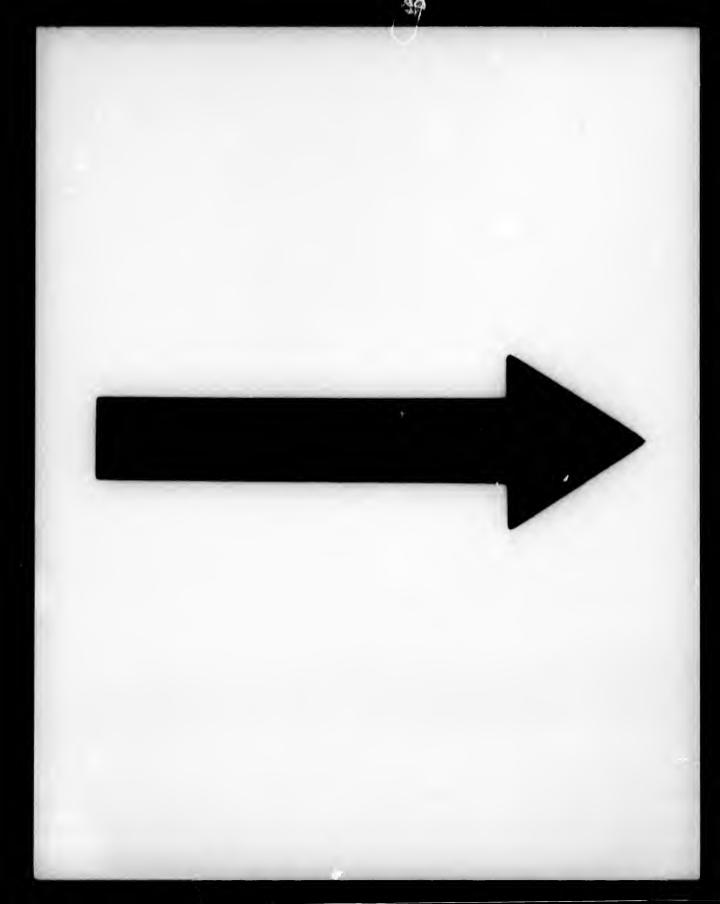
Blue or red cloth. Of this the Indian women make their petticoats, which reach only to their knees. They generally chufe the blue colour.

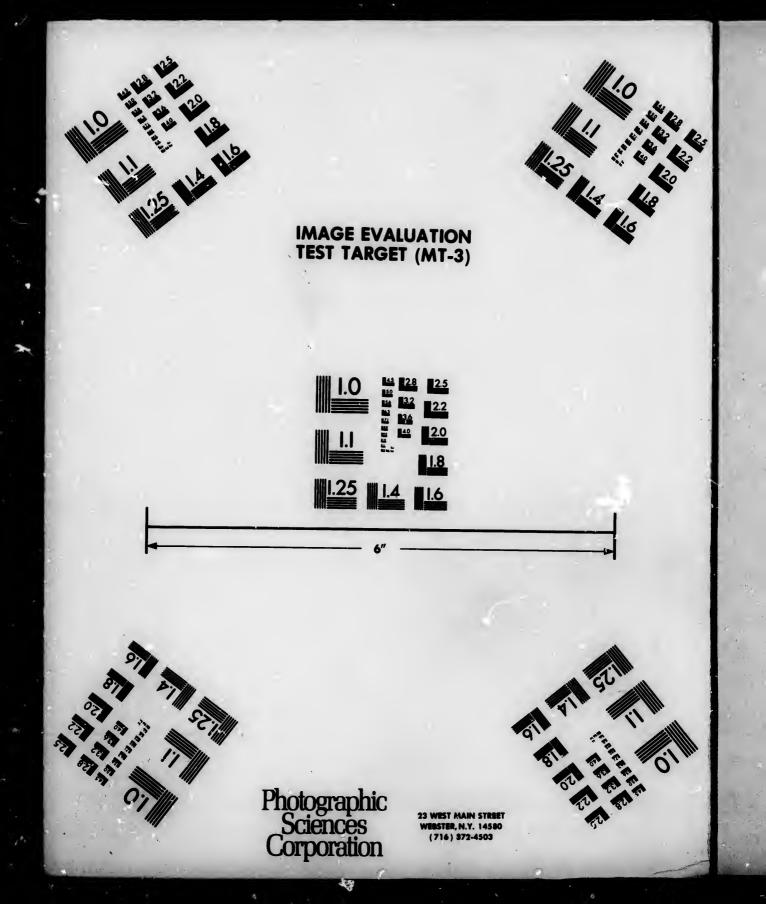
Shirts and shifts of linen. As soon as an Indian fellow, or one of their women, have put on a fhirt, they never wash it, or strip it off, till it is entirely torn in pieces.

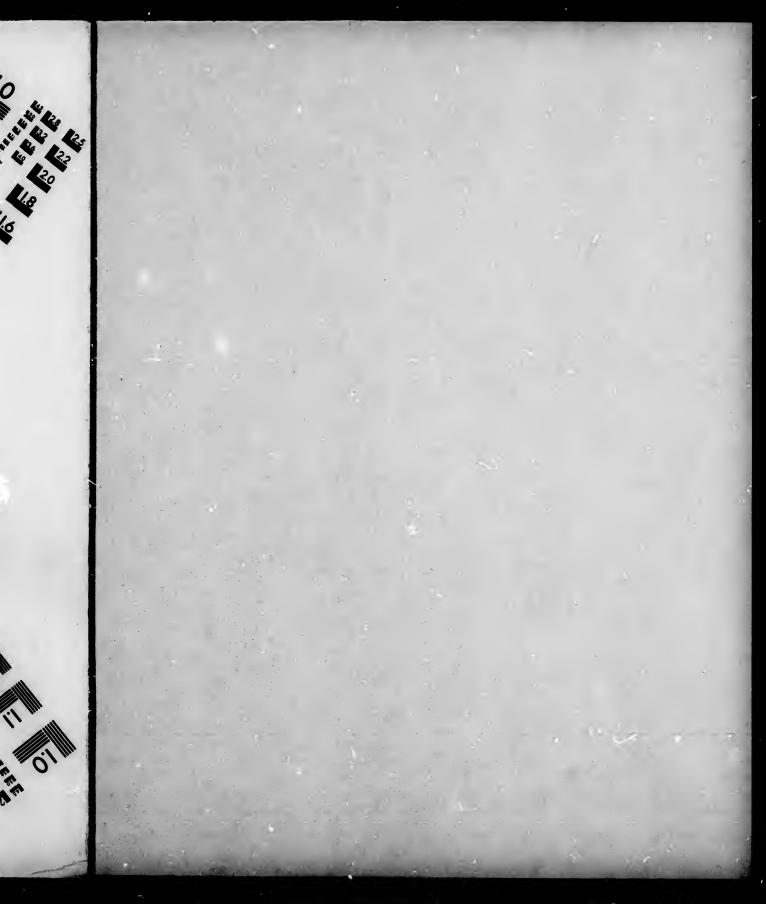
Pieces of cloth, which they wrap round their legs instead of stockings, like the Rulfians.

Hatchets, knives, scissars, needles, and a fteel to Strike fire with. These instruments are now common among the Indians. They all take these instruments from the Europeans, and reckon the hatchets and knives much better, than those which they formerly made of ftones and bones. The flone

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ftone hatchets of the ancient Indians are very rare in Canada.

Kettles of copper or brafs, fometimes tinned in the infide. In thefe the Indians now boil all their meat, and they have a very great run with them. They formerly made ufe of earthen or wooden pots, into which they poured water, or whatever elfe they wanted to boil, and threw in red hot stones to make it boil. They do not want iron boilers, becaufe they cannot be easily carried on their continual journies, and would not bear such falls and knocks as their kettles are subject to.

Ear-rings of different fizes, commonly of brais, and fometimes of tin. They are worn by both men and women, though the use of them is not general.

Vermillion. With this they paint their face, thirt, and feveral parts of the body. They formerly made use of a reddith earth, which is to be found in the country; but, as the *Europeans* brought them vermillion, they thought nothing was comparable to it in colour. Many perfons have told me, that they had heard their fathers mention, that the first *Frenchmen* who came over here, got a great heap of furs from the *Indians*, for three times as much cinnabar as would ly on the tip of a knife.

Verdi-

Verdigrease, to paint their faces green. For the black colour, they make use of the soot at the bottom of their kettles, and daub their whole face with it.

Looking glaffes. The Indians are very much pleafed with them, and make use of them chiefly when they want to paint themfelves. The men constantly carry their looking glasses with them on all their journies; but the women do not. The men, upon the whole, are more fond of dreffing than the women.

Burning glass. These are excellent pieces of furniture in the opinion of the Indians; because they ferve to light the pipe without any trouble, which an indolent Indian is very fond of.

Tobacco is bought by the northern Indians, in whole country it will not grow. The fouthern Indians always plant as much of it as they want for their own confumption. Tobacco has a great run amongst the northern Indians, and it has been observed, that the further they live to the northward, the more they fmoke of tobacco.

Wampum, or, as they are here called, porcelanes. They are made of a particular kind of fhells, and turned into little fhort cylindrical beads, and ferve the Indians for money and ornament.

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Glass

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Glass beads, of a small fize, and white or other colours. The Indian women know how to fasten them in their ribbands, pouches, and clothes.

Brass and steel wire, for several kinds of work.

Brandy, which the Indians value above all other goods that can be brought them; nor have they any thing, though ever fo dear to them, which they would not give away for this liquor. But, on account of the many irregularities which are caufed by the ufe of brandy, the fale of it has been prohibited under fevere penalties; however, they do not always pay an implicit obedience to this order.

THESE are the chief goods which the *French* carry to the *Indians*, and they have a good run among them.

THE goods which they bring back from the Indians, confift entirely in furs. The French get them in exchange for their goods, together with all the neceflary provisions they want on the journey. The furs are of two kinds; the best are the northern ones, and the worst fort those from the fouth.

In the northern parts of America there are chiefly the following skins of animals : bears,

beavers, elks*, rein-deer +, wolf-lynxes ‡, and martens. They fometimes get martens fkins from the fouth, but they are red, and good for little. *Pichou du Nord* is perhaps the animal which the *Englifb*, near *Hudfon's* bay, call the *wolverene*. To the northern furs belong the bears, which are but few, and foxes, which are not very numerous, and generally black; and feveral other fkins.

THE skins of the southern parts are chiefly taken from the following animals: wild cattle, stags, roebucks, otters, *Pichoux* du Sud, of which P. Charlevoix makes mention §, and are probably a species of catlynx, or perhaps a kind of panther; foxes of various kinds, raccoons, cat-lynxes, and several others.

It is inconceivable what hardships the people in *Canada* must undergo on their journies. Sometimes they must carry their goods a great way by land; frequently they are abused by the *Indians*, and fometimes they are killed by them. They often fuffer hunger, thirst, heat, and cold, and are bit by gnats, and exposed to the bites of poi-

* Orignacs,

+ Cariboux.

‡ Loup cerviers.

§ In his Hift. de la Nouv. France, Tom. V. p. 158.

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fonous fnakes, and other dangerous animals and infects. Thefe deftroy a great part of the youth in *Canada*, and prevent the people from growing old. By this means, however, they become fuch brave foldiers, and fo inured to fatigue, that none of them fear danger or hardfhips. Many of them fettle among the *Indians* far from *Canada*, marry *Indian* women, and never come back again.

The prices of the skins in Canada, in the year 1749, were communicated to me by *M. de Couagne*, a merchant at *Montreal*, with whom I lodged. They were as follows:

GREAT and middle fized bear skins, coft five livres.

SKINS of young bears, fifty fols.

_____ lynxs, 25 fols.

_____ pichoux du fud, 35 fols.

_____ foxes from the fouthern parts, 35 fols.

otters, 5 livres.

----- raccoons, 5 livres.

martens, 45 fols.

------ wolf-lynxes *, 4 livres.

------ wolves, 40 fols.

----- carcajoux, an animal which I do not know, 5 livres.

* Loups cerviers.

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SKINS of *vifons*, a kind of martens, which live in the water, 25 fols. RAW fkins of *elks**, 10 livres.

I WILL now infert a lift of all the different kinds of fkins, which are to be got in *Canada*, and which are fent from thence to *Europe*. I got it from one of the greateft merchants in *Montreal*. They are as follows:

Prepared roebuck skins, chevreuils pass. Unprepared ditto, chevreuils verts. Tanned ditto, chevreuils tanés. Bears, ours. Young bears, oursons. Otters, loutres. Pecans. Cats, chats. Wolves, loup de bois. Lynxes, loups cerviers. North pichoux, pichoux du nord.

* Originacs verts. † Cerfs verts. ‡ Originacs et cerfs passés.

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LINS

South pichoux, pichoux du sud. Red foxes, renards rouges. Crois foxes, renards croisés. Black foxes, renards noirs. Grey foxes, renards argentés. Southern, or Virginian foxes, renards du sud où de Virginie.

White foxes, from Tadouffac, renards blancs de Tadouffac.

Martens, martres.

Visons, or foutreaux.

Black fquirrels, ecureuils noirs. Raw ftags fkins, cerfs verts. Prepared ditto, cerfs passes. Raw elks fkins, originals verts. Prepared ditto, originals passes. Rein-deer fkins, cariboux. Raw hinds fkins, biches verts. Prepared ditto, biches passes. Carcajoux.

Musk rats, rats musques. Fat winter beavers, castors gras d'hiver. Ditto summer beavers, castors gras d'été. Dry winter beavers, castors secs d'hiver. Ditto summer beavers, castors secs d'été. Old winter beavers, castors vieux d'hiver. Ditto summer beavers, castors vieux d'hiver.

TO-DAY, I got a piece of native copper from the Upper Lake. They find it there almost

almost quite pure; so that it does not want melting over again, but is immediately fit for working. Father Charlevoix * speaks of it in his History of New-France. One of the Jesuits at Montreal, who had been at the place where this metal is got, told me, that it is generally found near the mouths of rivers, and that there are pieces of native copper too heavy for a fingle man to lift up. The Indians there fay, that they formerly found a piece of about feven feet long, and near four feet thick, all of pure copper. As it is always found in the ground near the mouths of rivers, it is probable that the ice or water carried it down from a mountain; but, notwithstanding the careful search that has been made, no place has been found, where the metal lies in any great quantity together.

THE head or superior of the priests of Montreal, gave me a piece of lead-ore to-day. He faid it was taken from a place only a few French miles from Montreal, and it confisted of pretty compact, shining cubes, of lead ore. I was told by several persons here, that furthermore southward in the country, there is a place where they find a great quantity of this lead-ore in the ground. The In-

* See his Hift. de la Nouv. Fr. Tom. VI. p. 415.

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dians near it, melt it, and make balls and fhot of it. I got fome pieces of it likewife, confifting of a fhining cubic lead-ore, with narrow ftripes between it, and of a white hard earth or clay, which effervesces with aqua fortis.

I LIKEWISE received a reddifh brown earth to-day, found near the Lac de Deux Montagnes, or Lake of Two Mountains, a few French miles from Montreal. It may be eafily crumbled into dust between the fingers. It is very heavy, and more fo than the earth of that kind generally is. Outwardly, it has a kind of glossy appearance, and, when it is handled by the fingers for fome time, they are quite as it were filvered over. It is, therefore, probably a kind of lead-earth or an earth mixed with ironglimmer.

THE ladies in Canada are generally of two kinds: fome come over from France, and the reft natives. The former poffefs the politeness peculiar to the French nation; the latter may be divided into those of Quebec and Montreal. The first of these are equal to the French ladies in good breeding, having the advantage of frequently conversing with the French gentlemen and ladies, who come every fummer with the king's ships, and stay several weeks

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at Quebec, but feldom go to Montreal. The ladies of this last place are accused by the French of partaking too much of the pride of the Indians, and of being much wanting in French good breeding. What I have mentioned above of their dreffing their head too affiduously, is the cafe with all the ladies throughout Canada. Their hair is always curled, even when they are at home in a dirty jacket, and fhort coarse petticoat, that does not reach to the middle of their legs. On those days when they pay or receive vifits, they drefs fo gayly, that one is almost induced to think their parents poffessed the greatest dignities in the state. The Frenchmen, who considered things in their true light, complained very much that a great part of the ladies in Canada had got into the pernicious cuftom of taking too much care of their drefs, and fquandering all their fortunes, and more, upon it, instead of sparing something for future times. They are no less attentive to have the newest fashions; and they laugh at each other, when they are not dreffed to each other's fancy. But what they get as new fashions, are grown old, and laid afide in France; for the fhips coming but once every year from thence, the people in Canada confider that as the new fashion for the

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the whole year, which the people on board brought with them, or which they imposed upon them as new. { The ladies in Canada, and especially at Montreal, are very ready to laugh at any blunders strangers make in fpeaking; but they are very excufable. People laugh at what appears uncommon and ridiculous. In Canada nobody ever hears the French language spoken by any but Frenchmen; for strangers seldom come thither; and the Indians are naturally too proud to learn French, but oblige the French to learn their language. From hence it naturally follows, that the nice Canada ladies cannot hear any thing uncommon without laughing at it. One of the first queftions they propose to a stranger is, whether he is married? The next, how he likes the ladies in the country; and whether he thinks them handlomer than those of his own country ? And the third, whether he will take one home with him? There are fome differences between the ladies of Quebec, and those of Montreal; those of the last place feemed to be generally handfomer than those of the former. Their behaviour likewife feemed to me to be fomewhat too free at Quebec, and of a more becoming modefty at Montreal. The ladies at Quebec, especially the unmarried A girl of ones, are not very industrious. eighteen

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eighteen is reckoned very poorly off, if the cannot enumerate at least twenty lovers. These young ladies, especially those of a higher rank, get up at feven, and drefs till nine, drinking their coffee at the fame time. When they are dreffed, they place themfelves near a window that opens into the ftreet, take up fome needle-work, and few a stitch now and then; but turn their eyes into the ftreet most of the time. When a young fellow comes in, whether they are acquainted with him or not, they immediately lay afide their work, fit down by him, and begin to chat, laugh, joke, and invent double-entendres; and this is reckoned being very witty *. In this manner they frequently pass the whole day, leaving their mothers to do all the bufiness in the house. In Montreal, the girls are not quite fo volatile, but more industrious. They are always at their needle-work, or doing fome neceffary bufiness in the house. They are likewife chearful and content; and nobody can fay that they want either wit, or Their fault is, that they think charms. too well of themselves. However, the daughters of people of all ranks, without exception, go to market, and carry home what they have bought. They rife as foon,

* Avoir beaucoup d'esprit.

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and go to bed as late, as any of the people in the houfe. I have been affured, that, in general, their fortunes are not confiderable; which are rendered ftill more fcarce by the number of children, and the fmall revenues in a houfe. The girls at Montreal are very much difpleafed that those at Quebec get hufbands forner than they. The reafon of this is, that many young gentlemen who come over from France with the fhips, are captivated by the ladies at Quebec, and marry them; but as these gentlemen feldom go up to Montreal, the girls there are not often fo happy as those of the former place.

September the 23d. This morning I went to Saut au Recollet, a place three French miles northward of Montreal, to defcribe the plants and minerals there, and chiefly to collect feeds of various plants. Near the town there are farms on both fides of the road; but as one advances further on, the country grows woody, and varies in regard to height. It is generally very ftrong; and there are both pieces of rock-ftone, and a kind of grey lime-ftone. The roads are bad, and almost impassable for chaifes. A little before I arrived at Saut au Recollet, the woods end, and the country is turned into corn-fields, meadows, and pastures.

Between Montreal and Saut au Recollet. 285

ABOUT a *French* mile from the town are two lime-kilns on the road. They are built of a grey lime-ftone, burnt hard, and of pieces of rock-ftone, towards the fire. The height of the kiln from top to bottom is feven yards.

THE lime-ftone which they burn here, is of two kinds. One is quite black, and fo compact, that its conftituent particles cannot be diftinguished, some dispersed grains of white and pale grey spar excepted. Now and then there are thin cracks in it filled with a white small-grained spar.

I HAVE never feen any petrefactions in this ftone, though I looked very carefully for them. This flone is common on the isle of Montreal, about ten or twenty inches below the upper foil. It lies in ftrata of five or ten inches thickness. This stone is faid to give the best lime; for, though it is not fo white as that of the following grey lime-stone, yet it makes better mortar, and almost turns into stone, growing harder and more compact every day. There are examples, that when they have been about to repair a house made partly of this mortar. the other flones of which the house confists, fooner broke in pieces than the mortar itself.

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THE other kind is a grey, and fometimes a dark grey lime-ftone, confifting of a compact calcareous-ftone, mixed with grains of fpar, of the fame colour. When broken, it has a ftrong imell of ftink-ftone. It is full of petrified striated shells or pectinites. The greatest part of these petrefactions are, however, only imprefiions of the hollow fide of the shells. Now and then I found likewise petrefied pieces of the shell itself, though I could never find the fame shells in their natural state on the shores; and it seems inconceivable how fuch a quantity of impreffions could come together, as I shall prefently mention.

I HAVE had great pieces of this lime-ftone, confifting of little else than pectinites, lying close to one another. This lime-ftone is found on several parts of the isle, where it lies in horizontal strata of the thickness of five or ten inches. This stone yields a great quantity of white lime, but it is not so good as the former, because it grows damp in wet weather.

FIR-wood is reckoned the best for the lime-kilns, and the thuya wood next to it. The wood of the fugal maple, and other trees of a fimilar nature, are not fit for it, because they leave a great quantity of coals.

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GREY pieces of rock-stone are to be seen in the woods and fields hereabouts.

THE leaves of feveral trees and plants began now to get a pale hue; especially those of the red maple, the smooth sumach *, the Polygonum fagittatum, LINN. and several of the ferns.

A GREAT cross is erected on the road, and the boy who shewed me the wood, told me that a person was buried there, who had wrought great miracles.

AT noon I arrived at Saut. au Recollet, which is a little place, fituated on a branch of the river St. Lawrence, which flows with a violent current between the ifles of Montreal and Jesus. It has got its name from an accident which happened to a recollet friar, called Nicolas Veil, in the year 1625. He went into a boat with a converted Indian, and fome Indians of the nation of Hurons, in order to go to Quebec ; but, on going over this place in the river, the boat overfet, and both the friar and his profelyte were drowned. The Indians (who have been fufpected of occasioning the overfetting of the boat) fwam to the fhore, faved what they could of the friars effects, and kept them.

* Rhus glabrum. Linn.

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THE country hereabouts is full of ftones, and they have but lately began to cultivate it; for all the old people could remember the places covered with tall woods, which are now turned into corn-fields, meadows, and pastures. The priests fay, that this place was formerly inhabited by fome converted Hurons. These Indians lived on a high mountain, at a little diftance from Montreal, when the French first arrived here, and the latter perfuaded them to fell that land. They did fo, and fettled here at Saut au Recollet, and the church which still remains here, was built for them, and they have attended divine fervice in it for many years. As the French began to increase on the isle of Montreal, they wished to have it entirely to themfelves, and perfuaded the Indians again to fell them this fpot, and go to another. The French have fince prevailed upon the Indians (whom they did not like to have amongst them, because of their drunkennefs, and rambling idle life) to leave this place again, and go to fettle at the lake des Deux Montagnes, where they are at prefent, and have a fine church of ftone. Their church at Saut au Recollet is of wood, looks very old and ruinous, though its infide is pretty good, and is made use of by the Frenchmen in this place. They have already

Saut au Recollet:

ones, ivate mber vhich lows. this: conon a Mont-, and land. u Remains ve atyears. ne isle ntirendians b anod upke to runke this te des esent, Their looks ide is v the e already ready brought a quantity of ftones hither, and intend building a new church very foon. The botanical observations which I made during these days, I shall referve for another publication.

THOUGH there had been no rain for fome days paft, yet the moifture in the air was fo great, that as I fpread fome papers on the ground this afternoon, in a fhady place, intending to put the feeds I collected into them, they were fo wet in a few minutes time, as to be rendered quite ufelefs. The whole fky was very clear and bright, and the heat as intolerable as in the middle of *July*.

ONE half of the corn-fields are left fallow alternately. The fallow grounds are never ploughed in fummer; fo the cattle can feed upon the weeds that grow on them. All the corn made use of here is summer corn, as I have before observed, Some plough the fallow grounds late in autumn; others defer that business till spring; but the first way is faid to give a much better crop. Wheat, barley, rye, and oats are harrowed, but peafe are ploughed under ground. They fow commonly about the 15th of April, and begin with the peafe. Among the many kinds of peafe which are to be got here, they prefer the green ones to all VOL.III. others

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others for fowing. They require a high, dry, poor ground, mixed with coarfe fand. The harvest time commences about the end, and fometimes in the middle of August. When returns generally fifteen, and fometimes twenty fold; oats from fifteen to thirty The crop of peafe is fometimes forfold. ty fold, but at other times only ten fold; for they are very different. The plough and harrow are the only instruments of hufbandry they have, and those none of the The manure is carried best fort neither. upon the fallow grounds in spring. The foil confifts of a grey flony earth, mixed with clay and fand. They fow no more barley than is necessary for the cattle; for they make no malt here. They fow a good deal of oats, but merely for the horfes and other cattle. Nobody knows here how to make use of the leaves of deciduous trees as a food for the cattle, though the forests are furnished with no other than trees of that kind, and though the people are commonly forced to feed their cattle at home during five months.

I HAVE already repeatedly mentioned, that almost all the wheat which is fown in *Canada* is fummer wheat, that is fuch as is fown in fpring. Near *Quebec* it fometimes happens, when the fummer is lefs warm, or A the

Saut an Recollet.

the foring later than common, that a great part of the wheat does not ripen perfectly before the cold commences. I have been affured that fome people, who live on the *He de Jefus*, fow wheat in autumn, which is better, finer; and gives a more plentiful crop, than the fummer wheat; but it does not ripen above a week before the other wheat.

September the 25th. In feveral places hereabouts, they enclose the fields with a stone fence, instead of wooden pales. The plenty of stones which are to be got here, render the labour very triffing.

HERE are abundance of beech trees in the woods, and they now had ripe feeds. The people in *Canada* collect them in autumn, dry them, and keep them till winter, when they eat them, inftead of walnuts and hazel nuts; and I am told they take very well.

THERE is a falt fpring, as the prieft of this place informed me, feven French miles from hence, near the river d'Affomption; of which during the war, they have made a fine white falt. The water is faid to bevery briny.

SOME kinds of fruit-trees fucceed very well near *Montreal*, and I had here an opportunity of feeing fome very fine pears and apples of various forts. Near *Ryebec* the

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pear-trees will not fucceed, becaufe the winter is too fevere for them; and fometimes they are killed by the frost in the neighbourhood of Montreal. Plum-trees of feveral forts were first brought over from France, fucceed very well, and withstand the rigours of winter. Three varieties of America walnut-trees grow in the woods; but the walnut-trees brought over from France die almost every year down to the very root, bringing forth new fhoots in fpring. Peach-trecs cannot well agree with this climate; a few bear the cold, but, for greater fafety, they are obliged to put ftraw round them. Cheinut-trees, mulberry-trees, and the like, have never yet been planted in Canada. . is failes

THE whole cultivated part of Canada has been given away by the king to the clergy, and fome noblemen; but all the uncultivated parts belong to him, as likewife the place on which Quebec and Trois Rivieres are built. The ground on which the town of Montreal is built, together with the whole ifle of that name, belongs to the priefts of the order of St. Sulpicius, who live at Montreal. They have given the land in tenure to farmers and others who were willing to fettle on it, in fo much that they have more upon their hands at prefent

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present. The first settlers paid a trifling rent for their land; for frequently the whole lease for a piece of ground, three arpens broad and thirty long, confifts in a couple of chicken; and some pay twenty, thirty, or forty fols for a piece of land of the fame fize. But those who came later, must pay near two ecus (crowns) for fuch a piece of land, and thus the land-rent is very unequal throughout the country. The revenues of the bishop of Canada do not arise from any landed property. The churches are built at the expence of the congregations. The inhabitants of Canada do not yet pay any taxes to the king; and he has no other revenues from it, than those which arise from the custom-house.

THE priefts of Montreal have a mill here, where they take the fourth part of all that is ground. However the miller receives a third part of this fhare. In other places he gets the half of it. The priefts fometimes leafe the mill for a certain fum. Befides them nobody is allowed to erect a mill on the ifle of Montreal, they having referved that right to themfelves. In the agreement drawn up between the priefts and the inhabitants of the ifle, the latter are obliged to get all their corn ground in the mills of the former.

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THEY boil a good deal of sugar in Canada of the juice running out of the incisions in the sugar-maple, the red maple, and the sugar-birch; but that of the first tree is most commonly made use of. The way of preparing it has been more minutely described by me, in the Memoirs of the Royal Swedish Academy of Sciences *.

September the 26th. EARLY this morning I returned to Montreal. Every thing began now to look like autumn. The leaves of the trees were pale or reddilh, and most of the plants had lost their flowers. Those which still preferved them were the following +:

Several forts of afters, both blue and white.

Golden rods of various kinds.

Common milfoil.

Common felf-heal.

The crifped thiftle.

The biennial ocnothera.

The rough-leaved fun-flower, with trifoliated leaves.

The Ganada violet.

• See the Volume for the year 1751, p. 143, Sc. † Morei. Solidaginei. Achillea millefolium. Prunella vulgaris. Carduus erifpus. Denoebera biennis. Rudbeckid priloba. Viola Canadenfie. Geniana Saponaria.

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A species of gentian. WILD vines are abundant in the woods

hereabouts, climbing up very high trees. I HAVE made enquiry among the French, who travel far into the country, concernning the food of the Indians. Those who live far north, I am told, cannot plant any thing, on account of the great degree of cold. They have, therefore, no bread, and do not live on vegetables; flefh and fifh is their only food, and chiefly the flelin of bear vers, bears, rein-deer, elks, hares, and feveral kinds of birds. Those Indians who live far fouthward, eat the following things. Of vegetables they plant maize, wild kidney beans * of feveral kinds, pumpions of different forts, fquashes, a kind of gourds, watermelons and melons +. All these plants have been cultivated by the Indians, long before the arrival of the Europeans. They likewife eat various fruits which grow in their woods. Fish and fieth make a very great part of their food. And they chiefly like the flefh of wild cattle, roe-bucks, flags, bears, beavers, and some other quadrupeds. Among their dainty difnes, they reckon the water-taregrass +, which the French call

- * Pbascoli.
- + Cucumis melo, Linn.
- ‡ Zizania aquatica, Linp.

folle

folle avoine, and which grows in plenty in their lakes, in stagnant waters, and sometimes in rivers which flow flowly. They gather its feeds in October, and prepare them in different ways, and chiefly as groats, which tafte almost as well as rice. They make likewise many a delicious meal of the several kinds of walnuts, chefnuts, mulberries, acimine *, chinquapins +, hazel-nuts, peaches, wild prunes, grapes, whortle-berrics of feveral forts, various kinds of medlars, black-berries, and other fruit and roots. But the species of corn so common in what is called the old world, were entirely unknown here before the arrival of the Europeans; nor do the Indians at present ever attempt to cultivate them, though they fee the use which the Europeans make of the culture of them, and though they are fond of eating the dishes which are prepared of them.

September the 27th. BEAVERS are abundant all over North-America, and they are one of the chief articles of the trade in Canada. The Indians live upon their flesh during a great part of the year. It is certain that these animals multiply very fast; but it is no less fo, that

Annona muricata, Linn.
 † Fagus pumila, Linn.

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vast numbers of them are annually killed, and that the Indians are obliged at prefent to undertake distant journies, in order to catch or shoot them. Their decreasing in number is very eafily accounted for; because the Indians, before the arrival of the Europeans, only caught as many as they found neceffary to clothe themselves with, there being then no trade with the fkins. At prefent a number of thips go annually to Europe, laden chiefly with beavers fkins; the English and French endeavour to outdo each other, by paying the Indians well for them, and this encourages the latter to extirpate these animals. All the people in Canada told me, that when they were young, all the rivers in the neighbourhood of Montreal, the river St. Lawrence not excepted, were full of beavers and their dykes; but at prefent they are fo far extirpated, that one is obliged to go feveral miles up the country before one can meet with one. I have already remarked above, that the beaver skins from the north, are better than those from the fouth.

BEAVER-FLESH is eaten not only by the Indians, but likewife by the Europeans, and especially the French, on their fasting days; for his holiness, in his system, has ranged the beaver among the fish. The flesh

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flesh is reckoned best, if the beaver has lived upon vegetables, fuch as the afp, and the beaver-tree #; but when he has eaten fifh, it does not tafte well. To day I tafted this flesh boiled, for the first time; and though every body prefent, befides myfelf, thought it a delicious difh, yet I could not agree with them. I think it is eatable, but has nothing delicious. It looks black when boiled, and has a peculiar tafte. In order to prepare it well, it must be boiled in feveral waters from morning till noon, that it may lose the bad tafte it has. The tail is likewise eaten, after it has been boiled in the tame manner, and roafted afterwards; but it confifts of fat only, though they would not call it fo; and cannot be fwallowed by one who is not used to eat it.

Much has already been written concerning the dykes, or houses of the beavers; it is therefore unneceffary to repeat it, Sometimes, though but feldom, they catch beavers with white hair.

WINE is almost the only liquor which people above the vulgar are used to drink. They make a kind of foruce beer of the top of the white fir +, which they drink

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Magnelie glance, Linn. + Epimette blanche. The way of brewing this beer is deferibed at large in the Memoirs of the Royal Acad. of Sciences, for the years751, p. 190.

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in fummer; but the use of it is not gener ral; and it is feldom drank by people of quality. Thus great fums go annually out of the country for wine; as they have no vines here, of which they could make a liguor that is fit to be drank. The common people drink water; for it is not yet cuftomary here to brew beer of malt; and there are no orchards large enough to fupply the people with apples for making cyder. Some of the people of rank, who possess large orchards, sometimes, out of curiofity, get a small quantity of cyder made. The great people here, who are used from their youth to drink nothing but wine, are greatly at a loss in time of war; when all the thips which brought wine are intercepted by the English privateers. Towards the end of the last war, they gave two hundred and fifty Francs, and even one hundred Ecus, for a barrique, or hogshead, of wine.

THE prefent price of feveral things, I have been told by fome of the greatest merchants here, is as follows. A middling horse costs forty Francs * and upwards; a good horse is valued at an hundred Francs,

• Franc is the fame as Livre ; and twenty-two Livres make a pound flerling.

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or more. A cow is now fold for fifty Francs; but people can remember the time when they were fold for ten Ecus *. A sheep costs five or fix livres at prefent; but last year, when every thing was dear, it cost eight or ten Francs. A hog of one year old, and two hundred, or an hundred and fifty pound weight, is fold at fifteen Francs. M. Couagne, the merchant, told me, that he had icen a hog of four hundred weight among the Indians. A chicken is fold for ten or twelve Sols +; and a turkey for twenty fols. A Minot ‡ of wheat fold for an Ecul last year; but at prefent it coft forty Sols. Maize is always of the fame price with wheat, because here is but little of it; and it is all made use of by those who go to trade with the Indians. A Minot of oats cofts fometimes from fifteen to twenty Sols; but of late years it has been fold for twenty-fix, or thirty Sols. Peafe bear always the fame price with wheat. A pound of butter cofts commonly about eight or ten Sols; but last year it rose up to fixteen Sols. A dozen of eggs ufed to cost but three Sols; however, now are

* An Ecu is three Francs.

+ Twenty Sols make one Livre.

t A French measure, about the same as two bushels in England.

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fold for five. They make no cheefe at Montreal; nor is there any to be had, except what is got from abroad. A watermelon generally cofts five or fix Sols; but if of a large fize, from fifteen to twenty.

THERE are as yet no manufactures eftablisted in *Canada*; probably, because *France* will not lose the advantage of selling off its own goods here. However, both the inhabitants of *Canada*, and the *Indians*, are very ill off for want of them, in times of war.

THOSE perfons who want to be married, muft have the confent of their parents. However, the judge may give them leave to marry, if the parents oppose their union, without any valid reason. Likewise, if the man be thirty years of age, and the woman twenty-fix, they may marry, without farther waiting for their parents confent.

September the 29th. THIS afternoon I went out of town, to the fourth-weft part of the ifle, in order to view the country, and the æconomy of the people, and to collect ieveral feeds. Just before the town are fome fine fields, which were formerly cultivated, but now ferve as pastures. To the north-west appears the high mountain, which lies westward of *Montreal*, and is very fertile, and covered with fields and gardens

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gardens from the bottom to the fummits On the fouth-east fide is the river St. Lawrence, which is very broad here; and on its fides are extensive corn-fields and meadows, and fine houses of Aone, which look white at a diffance. At a great diffance fouth-caftward, appear the two high mountains near fort Chamblais, and fome others near lake Champlain, railing their tops above the woods. All the fields hereabouts are filled with stones of different fizes ; and among them, there is now and then a black lime-stone. About a French mile from the town, the high road goes along the river, which is on the left-hand; and on the right-hand all the country is cultivated and inhabited. The farm-houses are three, four, or five arpens diftant from cach other. The hills near the river are gene+ rally high and pretty fteep ; they confift of earth ; and the fields below them are filled with pieces of rock-flone, and of black lime-flate. About two French miles from Montreal, the river runs very rapidly, and is full of stones; in some places there are fome waves. However, those who go in boats into the fouthern parts of Canada, are obliged to work through fuch places.

Most of the farm-houses in this neighbourhood ate of stone, partly of the black lime-

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Montreal.

lime-stone, and partly of other stones in the neighbourhood. The roof is made of shingles or of straw. The gable is always very high and steep. Other buildings, such as barns and stables, are of wood.

WILD-GEESE and ducks, began now to migrate in great flocks to the fourhern countries.

Officient the 2d. THE two preceding days, and this, I employed chiefly in collecting fords.

The last night's frost had caused a great alteration in feveral trees. Walnut-trees of all forts thed their leaves in plenty now. The flowers of a kind of nettle * were all entirely killed by the frost. The leaves of the American lime-tree were likewise damaged. In the kitchen-gardens the leaves of the melons were all killed by the frost. However, the beech, oak, and birch, did not seem to have suffered at all. The fields were all covered with a hoar-frost. The ice in the pools of water was a geometrical line and a half in thickness.

THE biennial cenothera + grows in abundance on open woody hills, and fallow

* Urtica divaricata, Linn. + Generbera biennis, Linn.

fields.

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fields. An old *Frenchman*, who accompanied me as I was collecting its feeds, could not fufficiently praife its property of healing wounds. The leaves of the plant must be crushed, and then laid on the wound.

Sœurs de Congregation are a kind of religious women, different from nuns. They do not live in a convent, but have houses both in the town and country. They go where they pleafe, and are even allowed to marry, if an opportunity offers; but this, I am told, happens very feldom. In many places in the country, there are two or more of them : they have their house commonly near a church, and generally the parsonage house is on the other fide of the church. Their bufiness is to instruct young girls in the Christian religion, to teach them reading, writing, needle-work, and other female accomplishments. People of fortune board their daughters with them for fome time. They have their boarding, lodging, beds, instruction, and whatever elfe they want, upon very reafonable terms. The house where the whole community of these ladies live, and from whence they are fent out into the country, is at Montreal. A lady that wants to become incorporated among

La Chine.

among them, must pay a confiderable fum of money towards the common flock; and fome people reckon it to be four thousand livres. If a perfon be once received, she is fure of a subfistence during her lifetime.

La Chine is a fine village, three French miles to the fouth-east of Montreal, but on the fame ifle, close to the river St. Lawrence. The farm-houses ly along the riverfide, about four or five arpens from each other. Here is a fine church of ftone, with a fmall fteeple; and the whole place has a very agreeable fituation. Its name is faid to have had the following origin. As the unfortunate M. Salée was here, who was afterwards murdered by his own countrymen further up in the country, he was very intent upon discovering a shorter road to China, by means of the river St. Lawrence. He talked of nothing at that time but his new thort way to China. But as his project of undertaking this journey, in order to make this difcovery, was stopped by an accident which happened to him here, and he did not that time come any nearer China, this place got its name, as it were, by way of joke.

THIS evening I returned to Montreal. Vol. III. U October

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October the 5th. The governor-general at Quebec is, as I have already mentioned before, the chief commander in Canada. Next to him is the intendant at Quebec ; then follows the governor of Montreal, and after him the governor of Trois Rivieres. The intendant has the greatest power next to the governor-general; he pays all the money of government, and is prefident of the board of finances, and of the court of justice in this country. He is, however, under the governor-general; for if he refules to do any thing to which he feems obliged by his office, the governor-general can give him orders to do it, which he must obey. He is allowed, however, to appeal to the government in France. In each of the capital towns, the governor is the highest person, then the lieutenant-general, next to him a major, and after him the captains. The governor-general gives the first orders in all matters of confequence. When he comes to Trois Rivieres and Montreal, the power of the governor ceates, because he always commands where he is. The governor-general commonly goes to Montreal once every year, and mostly in winter; and during his absence from Quebec, the lieutenant-general commands

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mands there. When the governor-general dies, or goes to France, before a new one is come in his stead, the governor of Montreal goes to Quebec to command in the mean while, leaving the major to command at Montreal.

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ONE or two of the king's fhips are annually fent from France to Canada, carrying recruits to fupply the places of those foldiers, who either died in the fervice, or have got leave to fettle in the country, and turn farmers, or to return to France. Almost every year they fend a hundred, or a hundred and fifty people over in this man-With these people they likewise fend ner. over a great number of perfons, who have been found guilty of fmuggling in France. They were formerly condemned to the gallies, but at prefent they fend them to the colonies, where they are free as foon as they arrive, and can choose what manner of life they pleafe, but are never allowed to go out of the country, without the king's special licence. The king's ships likewise bring a great quantity of merchandizes which the king has bought, in order to be distributed among the Indians on certain occasions. The inhabitants of Canada pay very little to the In the year 1748, a beginning was, king. U 2 however.

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however, made, by laying a duty of three per cent. on all the French goods imported by the merchants of Canada. A regulation was likewife made at that time, that all the furs and skins exported to France from hence, should pay a certain duty; but what is carried to the colonies pays nothing. The merchants of all parts of France and its colonies, are allowed to fend thips with goods to this place; and the Quebec merchants are at liberty likewife to fend their goods to any place in France, and its colonies. But the merchants at Quebec have but few thips, because the failors wages are very high. The towns in France which chiefly trade with Canada, are Rochelle and Bourdeaux; next to them are Marseilles, Nantes, Havre de Grace, St. Malo, and others. The king's fhips which bring goods to this country, come either from Breft or from Rochefort. The merchants at Quebec fend flour, wheat, pease, wooden utenfils, &c. on their own bottoms, to the French possessions in the The walls round Montreal. West-Indies. were built in 1738, at the king's expence, on condition the inhabitants should, little by little, pay off the coft to the king. The. town at prefent pays annually 6000 livres for them to government, of which 2000 are given

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given by the feminary of priefts. At Quebec the walls have likewife been built at the king's expence, but he did not redemand the expence of the inhabitants, because they had already the duty upon goods to pay as above mentioned. The beaver trade belongs folely to the Indian company in France, and nobody is allowed to carry it on here, befides the people appointed by that company. Every other fur trade is open to every body. There are feveral places among the Indians far in the country, where the French have stores of their goods ; and these places they call les postes. The king has no other fortreffes in Canada than Quebec, Fort Chamblais, Fort St. Jean, Fort St. Frederic, or Crownpoint, Montreal, Frontenac, and Niagara. All other places belong to private persons. The king keeps the Niagara trade all to himfelf. Every one who intends to go to trade with the Indians must have a licence from the governor-general, for which he must pay a fum according as the place he is going to is more or lefs advantageous for trade. A merchant who fends out a boat laden with all forts of goods, and four or five perfons with it, is obliged to give five or fix hundred livres for the permiffion; and there are places for which they give a U₂ thousand

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thousand livres. Sometimes one cannot buy the licence to go to a certain trading place, because the governor-general has granted, or intends to grant it to some acquaintaince or relation of his. The money urising from the granting of licences, belongs to the governor-general; but it is customary to give half of it to the poor: whether this is always strictly kept to or not, I shall not pretend to determine.

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