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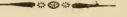
OF

NEW-HAMPSHIRE,

CONTAINING A GEOGRAPHICAL DESCRIPTION OF THE STATE; WITH SKETCHES OF ITS NATURAL HISTORY, PRODUCTIONS, IMPROVEMENTS, AND PRESENT STATE OF SOCIETY AND MANNERS, LAWS AND GOVERNMENT.

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PREFACE.

THE materials of which this part of the History of New-Hampshire is composed, were chiefly collected during a refidence of twenty-two years in the eastern part of the State; from observations made in various places, and particularly in feveral journies to the northern and western parts; from original furveys of many townships and tracts of the Country; from the conversation of many perfons who have been employed in furveying, mafting, hunting and fcouting; as well as in hufbandry, manufactures, merchandife, navigation and fishery. The public offices have also been repeatedly fearched, and the obliging attention of the officers of government, both in New-Hampshire and Maffachusetts, is again thankfully acknowledged. But that no fource of information might be left unexplored, a printed circular letter was addreffed to the feveral Clergymen, and other gentlemen of public character, in all parts of the State, requesting their communications on various heads of inquiry. The answers to these letters have not been fo numerous, and in fome instances, not fo particular as would have been agreeable; but from those which have been received (and for which the Author requests the several writers to accept his thanks) he has been enabled to render his account more complete than it could have been without this affistance.

brought from Britain, and which were in vogue a century ago, be there loft or forgotten, it is no reafon that they should be disused here, especially

when they convey a definite fense.

I know not whether as much can be faid in vindication of another word, which I have frequently used, and which perhaps is not more known in England, viz. intervale. I can cite no very ancient authority for it; but it is well understood in all parts of New-England to distinguish the low-land adjacent to the fresh rivers, which is frequently over-flowed by the freshets; and which is accounted some of our most valuable soil, because it is rendered permanently fertile, by the bountiful hand of nature, without the labour of man.

There is another deviation from the strict letter of the English dictionaries; which is found extremely convenient in our discourses on population. From the verb migro are derived emigrate and IMMIGRATE; with the same propriety as from mergo are derived emerge and IMMERGE. Accordingly the verb IMMIGRATE and the nouns IMMIGRANT and IMMIGRATION are used without scruple in some

parts of this volume.

In the 176th page, the number of inhabitants taken by the cenfus of 1790, is faid to be 142,018. This number was given to me in May, 1791, by the late Marshall John Parker, Efq. Afterward it was discovered that a mistake had been made by one of his affishants in returning the town of Burton twice, viz. in the County of Strafford and the County of Grafton. In the former it was fet down as containing 133, in the latter 141. The latter is retained; and the former being deducted from 142,018 leaves the funn total 141,885, which is the number returned to Congress and published by authority.

Twenty years have now elapfed fince this work was first undertaken; during which time it has struggled with many embarrassments, and has, more than once, been thrown by, as impracticable; but the favourable reception it has met with from the public and the continual importunity of its friends, have prevailed on me to complete it; for which purpose no pains have been spared. The receipt on the sale of the volumes bitherto salls short of the actual expense of the impression. How productive it may prove in future is uncertain. As some encouragement to the work, the Legislature of New-Hampshire have granted fifty pounds, which I have received and for which they again have my thanks.

In the course of my historical researches I have found some materials for an AMERICAN BIOGRA-PHY; and have entertained thoughts of pursuing my inquiries, with a view to present such a work to the public; if gentlemen in different parts of the American Continent and Islands, will savour me with suitable communications. The object is to delineate the characters and actions of remarkable persons deceased, and the events connected with them. Among those persons will be ranked Statesmen, Literary Persons, Warriors, Inventors, Navigators and Travellers, whether among the European Nations, who have possessions in America and their descendants, or the original Natives. But how voluminous or expensive the work will be, or how long time will be required to complete it, cannot at present be ascertained.

Boston, April 23, 1792.

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CHAP. I.

Situation, Extent, Boundaries, and Divisions.

THE fituation of New-Hampshire, on the terraqueous globe, is between 42° 41′ and 45° 11′ of latitude, north from the equator; and between 70° 40′ and 72° 28′ of longitude, west from the royal observatory of Greenwich. Its length from the northern to the fouthern extremity is one hundred and fixty-eight miles. Its greatest breadth, measured from the entrance of Pascataqua harbour, to the mouth of West River, which falls into Connecticut river, opposite to the town of Chestersield, is ninety miles. This line line crosses the 43d degree of latitude. From this line northerly, New-Hampshire decreases in breadth. On the 44th degree of latitude it is sifty-sive miles; and on the 45th degree, nineteen miles wide.

It is bounded on the fouth by the State of Maffachusetts; from which it is divided by a line, beginning on the sea shore, at a point three miles northward of the mouth of the river Merrimack; pursuing a course similar to the curvature of that river, at the same distance; and ending at a point, three miles north of Patucket sall, in the town of Dracut. From this point, the line extends, on a supposed due west course, till it crosses Connecticut river, and ends on its western bank; the distance being sifty-sive miles.

This line, called the due west line, was measured and marked in 1741, by Richard Hazzen. He was ordered by Governor Belcher to allow ten degrees for the westerly variation of the needle; the theory of which, now imperfect, was then less known. Is

is fupposed that the variation at that time, and in that place, was not more than eight degrees. In 1773, each end of this line was accurately examined by celestial observations, made by Thomas Wright, one of Capt. Holland's company of surveyors; when the western extremity was found to decline from the eastern two minutes and fifty-seven seconds of latitude. This was computed to make a difference of 59,372 acres of land, which would have been gained by New-Hampshire, if the line had been run with precision.

From the point where this line strikes Connecticut river, up to the forty-fifth degree of latitude, the western bank of that river is the western boundary of New-Hampshire, and the eastern boundary of

Vermont.

On its eastern fide, New-Hampshire is bounded by the Atlantic ocean, from the aforementioned point, three miles northward of the mouth of Merrimack river, along the shore, to the middle of the main entrance of Pascataqua harbour; which diftance is computed to be about eighteen miles. Thence the boundary line runs up the middle of the river, to its most northerly head, which is a pond, situated partly in the town of Wakefield and partly in the town of Shapley, in the County of York. The distance of this pond from the mouth of the harbour, is about forty miles, in a N. N. W. course. From the head of this pond, according to the royal determination, in 1740, the dividing line was to run 'north, two degrees west, till one hundred and 'twenty miles were finished, from the mouth of Pas-'cataqua harbour, or until it meet with his Majes-'ty's other governments.' The reason for mentioning this specific distance in the decree, was, that one hundred and twenty miles were the extent of the Province of Maine. At that time, no other government subject to the British Crown, lay in that direction. In 1763, the new Province of Quebec was erected, and its fouthern boundary was 'a line 'passing along the high lands, which divide the riv-'ers that empty themselves into the river St. Law-'rence, from those which fall into the sea.' By the treaty of peace, between America and Britain, in 1783, all the lands fouthward of that line, reckoning it from the eastward 'to the northwest head of 'Connecticut river, and thence down along the mid-'dle of that river, to the forty-fifth degree of north 'latitude' were ceded to the United States. determinations have been fo construed, as to favor an extension of the line between New-Hampshire and Maine, to the high lands which bound the Province of Quebec; a distance of twenty-five miles beyond the northern limits of the Province of Maine.

The line from the head of Salmon fall river, was begun to be measured and marked, in 1741, by Walter Bryent, who also was ordered to allow ten degrees for the westerly variation. In 1767, a controversy arose between the two Provinces, on a suggestion that Bryent had mistaken the main branch of the river; but no alteration was made in consequence of this suggestion. In 1768, the Governor of New-Hampshire ordered the line to be surveyed, to its farthest extent. The surveyor, Isaac Rindge, began where Bryant had left it; and marked the line, on the same course by the compass, to a point sixteen miles northward of Amariscogin river, and not far from the lake Umbagog. This survey being made twenty-seven years after the former, when the westerly variation was less than before, gave the line a westerly inclination. No farther survey was made till 1789, twenty-one years after the fecond; during which period, the variation was still decreasing, and the line was continued on the same course

by the compass, which must bring it still more westerly. For these reasons, in my map, the line is inflected, so as to correspond with the last survey as laid down in a plan returned by Joseph Cramm and Jeremiah Eames, and filed in the Secretary's office.

The State is bounded on the north, by the British Province of Quebec. The northeastern extremity of this boundary line, is abirch tree, marked N. E. New-Hampshire, 1789. This line extends along the high lands, 17 miles and two hundred and seven rods, to the head of the northwestern branch of Connecticut river; at which extremity is a fir tree, inscribed N. H. N. W. 1789. Thence the boundary descends, to the forty-sifth degree of latitude, along the middle of the northwestern branch, which there unites with the northeastern, or main branch of the river.

The fuperficial area of New-Hampshire, as calculated by George Sproule, in 1773, according to Holland's furvey, in which he was employed, was found to be 9296 fquare miles, or 5,949,440 acres. The addition made by the furvey of the northern boundary, in 1789, is faid to be 195 fquare miles, or 124,800 acres. From the whole it is supposed a deduction may be made for water, of at least one hun-

dred thousand acres.

Holland's furvey was made in 1773, and 1774, at the expence of the Province. The refult of it is contained in a large map, engraven in London, 1784, by the direction and at the expense of Paul Wentworth, Esq. Those parts which were actually surveyed by Holland or his affistants, are laid down with great accuracy. The eastern boundary line and the parts connected with it were not surveyed, but taken from such materials and information as could at that time be collected. In the map annexed to this work, those parts are more full and cor-

rect, excepting the lines of townships and locations, which in so small a draught could not be introduced without confusion. For the same reason, the names of some townships are omitted, chiefly such as have no settlements made in them.

The State is divided into five Counties, viz. Rockingham, Strafford, Hillfborough, Chefhire and Grafton, the boundaries of which are not noticed in Holland's, but are marked on this map by dotted lines.

The straight line of Mason's patent is also de-

fcribed. The history of it is as follows:

It was observed in the course of the preceding work, that the Masonian proprietors claimed a curve line as their western boundary; and that under the royal government no person had controverted that claim. When the war with Great-Britain was terminated by the peace of 1783, the grantees of fome crown lands, with which this line interfered, petitioned the Affembly to afcertain the limits of Mason's patent. The Masonians at the same time presented a petition, shewing the pretension which they had to a curve line, and praying that a furvey of it, which had been made in 1768, by Robert Fletcher, might be established. About the same time, the heirs of Allen, whose claim had long lain dormant, for want of ability to profecute it, having confulted Council, and admitted fome persons of property into partnership with them, entered and took possession of the unoccupied lands within the limits of the patent; and in imitation of the Masonians, gave general deeds of quitclaim, to all bona fide purchasers, previously to the first of May, 1785; which deeds were recorded in each County, and published in the newspapers. They also petitioned the Affembly to establish a head line for their patent.

After a folemn hearing of these claims, the Assembly ordered a survey to be made of fixty miles

from the sea, on the southern and eastern lines of the State, and a fraight line to be run from the end of one line of fixty miles, to the end of the other. They also passed an act to quiet all bona fide purchasers of lands, between the straight and curve lines, so far, as that the State should not disturb them. This furvey was made in 1787, by Joseph Blanchard and Charles Clapham. The line begins on the fouthern boundary, at lot No. 18, in the town of Rindge. Its course is north 39' east. Its extent is 931 miles. It ends at a point in the eastern boundary, which is feven miles and two hundred and fix rods, northward of Great Offapy river. This line being eftablished, as the head line, or western boundary of Mafon's patent, the Masonians, for the sum of forty thousand dollars in public securities, and eight hundred dollars in specie, purchased of the State, all its right and title to the unoccupied lands between the straight line and the curve. The heirs of Allen were then confined in their claim, to those waste lands only, which were within the straight line. They have fince compromifed their dispute, with the proprietors of eleven of the fifteen Masonian shares, by deeds of mutual quitclaim and release. This was done in January, 1790.

СНАР. П.

Air, Climate, and Seasons.

THE air of New-Hampshire is generally pure and falubrious. During the winter months, the prevailing wind is from the northwest; which is dry, cold and bracing; it rarely brings fnow, but when it does, the degree of cold is increased. That the coldness of our northwest wind is owing to the great lakes, is a vulgar error, often retailed by geographical writers, and adopted by unthinking people. All the great lakes lie westward of the N. W. point, and some of them fouthward of W. It is more natural to suppose that the immense wilderness, but especially the mountains, when covered with fnow, give a keenness to the air, as a cake of ice to a quantity of liquor in which it 'floats; and that this air, put in motion, conveys its cold as far as it extends.

The deepest snows fall with a northeast wind, and storms from that quarter are most violent, and of longest duration; after which the wind commonly changes to the N. W. and blows briskly for a day or two, driving the snow into heaps. This effect is produced only in the open grounds; in the forest the snow lies level, from two to four feet in depth, throughout the winter. On the mountains, the snow falls earlier, and remains later than in the low grounds. On those elevated summits, the winds also have greater force, driving the snow into the long and deep gullies of the mountains, where it is so consolidated, as not to be easily dissolved, by the vernal sun. Spots of snow are seen on the south

fides of the mountains as late as May, and on the

highest till July.

Light frosts begin in September; in October they are more frequent, and by the end of that month, ice is made in finall collections of water; but the weather is mostly ferene. November is a variable month, alternately wet and dry; the furface of the ground is frequently frozen and thawed. The same weather continues through a part of December, but commonly, in the course of this month, the rivers and the earth are thoroughly frozen, and well prepared to receive and retain the fnow. January often produces a thaw, which is fucceeded by a fevere frost. In February we have the deepest snows, and the coldest weather; but the lowest depression of the thermometer is generally followed by wet and mild weather. March is bluftering and cold, with frequent flights of fnow; but the fun is then fo high as to melt the fnow at noon. In April the open country is generally cleared of fnow; but it commonly lies in the woods till May. This is the usual routine of the wintry season; but there are fometimes variations. In 1771, the fnow did not fall till the end of January. In 1786, it was very deep in the beginning of December. When the fnow comes early, it preserves the ground from being deeply frozen, otherwise the frost penetrates to the depth of three feet or more.

From the middle of September, the mornings and evenings begin to be fo chill, that a finall fire becomes a defirable companion. In October, the weather requires one to be kept more fleadily; from the time that the autumnal rains come on in November, it is invariably necessary, to the end of March; in April it is intermitted at noon; a storm is always expected in May; and, till that is past, the chimney is not closed. We therefore reckon eight

months of cold weather in the year.

Cattle are housed from the beginning of November. In the severest weather, nature teaches the fowls to rooft on the backs of cattle, in the barns, to preserve their feet from being frozen. By the beginning of May, the grass is sufficiently grown for cattle to live abroad; good husbandmen do not permit them to feed till the twenty-first of May; but scarcity of fodder obliges the poorer fort to depart from this rule.

A dry winter is extremely cold. The winter of 1779'80, was remarkably dry, without rain or thaw; the fnow was conftantly drifted by the wind, the fprings of water were very low, and the weather as fevere and tedious as ever was experienced. It was called the Canada winter, from its fimilarity to the

usual dry cold of that climate.

A freezing rain is no uncommon spectacle. The trees are sometimes so incrusted with ice that the smaller branches break with its weight. The sun, shining on these incrustations, affords a brilliant entertainment to a curious spectator; but it is of short duration.

On the feventeenth of February, 1782, an unufual kind of hoar frost was observed. The wind had been northerly on the preceding day, with some appearance of snow. The morning was calm and foggy. The trees and bushes were white with frost, which appeared on the north sides, only, of the twigs and smaller branches; but on the larger limbs and trunks, there was none: Nor was any seen on the houses or fences, excepting on the sharp edges of boards; but every point of a stick or nail, and every rope and string, which was exposed to the north, was covered. The spiculæ were of all lengths, from an inch downward, and about the thickness of a knitting pin. They increased in number and size, for about two hours after the rising of the sun;

and in about an hour after this, began to fall, like fnow, on the ground; they did not all disappear till two hours after roon.

Light frosts have been known in every month of the year, excepting July. In June, 1764, a sudden frost nipped the Indian corn, then newly sprouted; but it recovered and sprouted again. A frost in August is generally destructive to this vegetable; the corn being then in the milk. After it has grown beyond this stage, the frost serves to open the husk and dry the ears, to prepare it for harvest.

A southeast storm is often as violent, but common-

A foutheast storm is often as violent, but commonly shorter, than one from the northeast; if it begin with snow it soon changes to rain. A brisk wind from the west or south west, with a slight of snow or rain, sometimes happens, but its duration is very short. Squalls of this kind are common in March.

In the fpring months there is generally a land breeze in the morning; a fea breeze begins an hour or two before noon, and continues till about the fetting of the fun. The heat of fummer is also frequently allayed by breezes from the fea, but they do not reach more than twenty or thirty miles into the country, and the lighter ones not so far. The northeast storms penetrate sixty or seventy miles, but their violence is abated at that distance from the sea.

In July the weather is clear and hot. In August the heat is greatest, and is accompanied with a disagreeable dampness. Thunder is frequent in the summer months; it is sometimes heard in spring and autumn, but rarely in the winter, though in snow storms the air is often highly electrified, and slashes are sometimes seen. Thunder showers in the summer commonly rise in the western quarter, and pass over to the east; if they rise in the north or northeast, they produce hail, which sometimes

proves destructive to the fields; but this mischief it never very extensive. The hail has been known to lie in hollow places, where it has rolled into heaps, till the fucceeding day; but for the most part, it melts soon after falling.

It has often been observed that thunder clouds, when near the earth, feem to be attracted by large collections of water. In the neighbourhood of lakes and ponds, the thunder is reverberated from the furrounding mountains, in a grand and folemn echo of long continuance. One of the most violent thunder ftorms which was ever known in the maritime parts of New-Hampshire, was on the fourth of May, 1779, at noon. A cloud rose in the N. W. and another in the S. W. at the same time; they croffed each other, and the former passed very near the earth; a very black darkness came on, the lightning was an inceffant glare, and the thunder a continual peal for about an hour. Many trees, feveral barns, mills and dwelling-houses were struck; cattle and sheep were killed in the pastures in several towns; and a valuable new house, built for religious worship, at Somerfworth, was fet on fire and confumed. Its steeple had a metallic vane and spindle, but no conductor to the earth. The bell was melted, and fell while in a state of fusion, and no piece of it larger than a musket ball could be found. The effects of this storm were to be traced from Kingston, in a northeasterly direction, to the river Kennebeck.

A fouthwest breeze in summer is accompanied with a ferene fky, and this is the warmest of our winds. Probably the tradition of the natives, that heaven is fituated in the S. W. arofe from this circumstance. The N. W. wind does not blow in fummer, but after a thunder shower, when its elasticity and coolness are as refreshing as the preceding heat

is tedious.

Sometimes the extreme heat of feveral days, produces, in the maritime parts, a fea turn, and in the inland parts, a whirlwind. A remarkable instance of both happened in June, 1782. The heat had been extreme for five days. On the 22d, after the fetting of the fun, the wind fuddenly shifted from S. W. to N. E. This change fenfibly affected the human body, and rendered an additional garment necessary. A very large quantity of Siberian wheat was at that time in a state of luxuriant vegetation. As far as the fea wind extended, which was from twenty to thirty miles, the wheat was chilled and blafted; beyond that distance it was not injured. The next day a whirlwind began near the river Connecticut, the western boundary of New-Hampshire, and directed its course toward the east, in a vein of near half a mile wide. In its progress its fury abated; but the blaft extended to the fea, and was accompanied with thunder and rain.

Inflances of fudden changes in the weather, are noted in the earliest accounts of the country. In 1658, when the apple trees were in blossom, there came on such a sudden and severe degree of cold, that in a sishing boat belonging to Hampton, one man died before they could reach the shore, another was so chilled that he died in a few days, and a third lost his feet.* This instance is very singular. The common season for the apple trees to blossom, is about the third week in May; but they are earlier or later according to the degree of heat. On the eleventh of May, 1769, when the trees were in bloom, an unusual slight of snow covered them in the afternoon, and continued till the next morning.

In a very warm autumn the earliest apple trees have produced blossoms; and roses have blown in the month of October, but these appearances are very rare.

^{*} MS letter of Rev. Mr. Gookin to Rev. Mr. Prince.

Sudden changes from cold to heat are less frequent than the contrary. The most remarkable instance of this kind happened in the winter of 1759 '60. It was on the Lord's day, in the time of morning service. There had been a freezing rain in the preceding night; and the trees, houses, and earth were covered with ice. On a sudden, the wind changed to the south; the ice fell from the trees, with a crackling noise, and a vapour rose from the houses as if they had been on fire. On coming into the open air, the change of the weather from severe cold, to summer heat, was associating. The greatest degree of heat which has been observed by Farenheit's thermometer is $\frac{96}{0}$ and of cold $\frac{9}{0}$. These observations were made at Portsmouth.

Notwithstanding these anomalous instances of inequality and fudden transition, the fky is commonly fettled and ferene for many days together, and the changes of weather are gradual. In the winter, a dry feafon, if there be fnow on the ground, is favourable for the purpose of transportation in sleighs and fledges. In fummer, if there be no extensive rain, for three or four weeks, the want of it is feverely felt. The years 1761 and 1762 were remarkable for early drought, which caused a scarcity of corn and hay; the rain which fell in August, brought forward the latter feed in the pastures and fields. The year 1782 was remarkable for a late drought; the latter feed and the autumnal vegetables, were destroyed. In October, the grafs was fo dry as to crackle under the feet. The long continuance of drought is observed to produce a coolness in the air. These droughts do not affect the mountainous parts of the country, fo much as the plains; which are also more injured by early frosts than the higher lands.

In the fpring, the trees which have been felled the

preceding year, are burned in the new plantations. If the feafon be dry, the flames fpread in the woods, and a large extent of the forest is sometimes on fire at once. Fences and buildings are often destroyed by these raging conflagrations. The only effectual way to prevent the spreading of such a fire, is to kindle another at a distance, and to drive the flame along through the bushes, or dry grass, to meet the greater fire, that all the such may be consumed. This operation requires a large number of people, and no small degree of dexterity and resolution. In swamps, a fire has been known to penetrate several feet under the ground, and consume the roots of trees. When a fire has raged to this degree, nothing can extinguish it but a heavy rain.

From these numerous fires arise immense clouds of smoke, mingled with the burnt leaves of the trees, which are carried to great distances by the wind. These clouds meeting with other vapours in the atmosphere, sometimes produce very singular appearances. The unusual darkness of the nineteenth of May, 1780, was caused by such a combination of

vapours.

Fires had fpread very extensively in the woods, and the westerly wind had driven the smoke over all the country. It was so thick near the horizon, for several preceding days, that the sun disappeared half an hour before its setting; and in the low grounds, it was almost suffocating. The morning of the nineteenth was cloudy, with some rain; and a black cloud appeared in the southwest, from which thunder was heard. The rain water, and the surface of rivers, was covered with a sooty scum. The remains of a snow drift, which had been raked clean the preceding day, became black. Several small birds slew into the houses, and others were found dead abroad, being suffocated. About an hour be-

fore noon, the clouds affumed a braffy appearance; after which their colour became a dufky grey; at one hour after noon it was necessary to light candles.

At the time of the greatest obscuration, the smoke of a chimney was observed to rise perpendicularly, and then incline to the west. A thick fog, which came in from the sea, moved along the hill tops in the same direction. The place where these observations were made, was at Dover, sisteen miles distant from the sea. A light gleam was seen in the north. The extent of this darkness, was more than two hundred miles, from north to south. To the westward, it reached beyond Albany, and it was observed, by a vessel at sea, sisteen leagues eastward of Cape-Anne.

The darkness varied its appearance, in some places, through the afternoon; but in the maritime parts of New-Hampshire, there was no cessation or interruption of it; and the evening presented a complete specimen of as total darkness as can be conceived. Before midnight, the vapors dispersed, and the next morning there was no appearance of them; but for several days after, clouds of smoke were seen in motion, and the burnt leaves of trees were wasted

abroad by the wind.

In the neighborhood of fresh rivers and ponds a whitish fog in the morning, lying over the water, is a sure indication of fair weather for that day; and when no fog is seen, rain is expected before night. In the mountainous parts of the country, the ascent of vapors, and their formation into clouds, is a curious and entertaining object. The vapors are seen rising in small columns, like smoke from many chimneys. When risen to a certain height, they spread, meet, condense, and are attracted by the mountains, where they either distil in gentle dews, and replen-

is repeated many times, in the course of a summer day, affording to travellers a lively illustration of what is observed in the book of Job, 'they are wet 'with the showers of the mountains.'*

The aurora borealis was first noticed in New-Hampshire, in the year 1719.† The elder people fay it is much more frequent now than formerly. It fometimes appears in the form of a luminous arch, extending from east to west; but more commonly rifes from a dark convexity in the north, and flashes upward, toward the zenith. In a calm night, and in the intervals between gentle flaws of wind, an attentive ear, in a retired fituation, may perceive it to be accompanied with a found. This luminous appearance has been observed in all seasons of the year, in the extremes of heat and cold, and in all the intermediate degrees. The colour of the streams is fometimes variegated, white, blue, yellow and red, the luftre of which, reflected from the fnow, is an appearance highly picturefque and entertaining.

^{*} Job xxiv. 3.

[†] The following account of this appearance is taken from the Boston News-Letter, of March 14, 1720?

[&]quot;The late extraordinary appearance in the heavens, of December 11, is the first of the kind that is known to have been seen in New-England, and was at the same time observed throughout the country. Some say it was seen at three several times, viz, at eight, twelve, and again toward morning. The account of some, is, of a cloud lying lengthway, toward the northwest and northeast; from the ends of which arose two clouds, ascending toward the middle of the heavens, of a deep red colour, and almost meeting each other, then descending toward the place whence they arose. The air was light in the time of it, as a little after sun set, or before sun rise; and some saw lights, something like shooting stars, streaming upwards from the clouds. It was seen in our towns all along; and the great variety of accounts, may in part proceed from this, that some saw only one, others another of its appearances."

[‡] If any person would have a precise idea of the sound, caused by the flashing of the aurora birealis, let him hold a silk handkerchief by the corner, in one hand, and with

the thumb and finger of the other hand, make a quick stroke along its edge.

Mr. Herrne in his journey to the northern ocean says, that he has frequently heard the northern lights "make a rustling and erackling noise, like the waving of a large flag in a fresh gale of wind."—Page 224, 4to edition.

CHAP. III.

Face of the Country .- Sea coast .- Mountains .

the fouthern boundary, to the mouth of Pascataqua harbour, is about eighteen miles. The shore is mostly a fandy beach, within which are falt marshes, intersected by creeks. There are several coves for fishing vessels; but the only harbour for ships, is the entrance of Pascataqua, where the shore is rocky. Some ledges and points of rocks, are situate to the southward of the harbour, off Rye; but there is no remarkable head land on the coast. Two bluffs only appear, elevated above the level of the beach, which are called the great and little Boar's heads;

these are in the town of Hampton.

The remarkable mountain, Agamenticus, lies about four leagues north of the entrance of Pascataqua, and there are three inferior fummits, known by the name of Frost's hills, at a less distance, on the N. W. These are situate within the County of York, formerly called the Province of Maine; but from the fea, no remarkable high lands appear, which are within the limits of New-Hampshire, nearer than twenty or thirty miles. The first ridge is continued through the towns of Rochester, Barrington and Nottingham, and the feveral fummits are diflinguished by different names, as Teneriffe, Saddleback, Tuckaway, &c. but the general name is the Blue Hills. yond thefe, are feveral higher ones, as Mount major, Moofe mountain, &c. thefe are not in a continued range, but detached; between them are many fmaller elevations, fome of which are, and others are not distinctly named. Farther back the mountains rife

higher, and among the third range, Chocorua, Offapy and Kyarfarge, claim the preeminence. Beyond thefe, is the lofty ridge, which is commonly called the height of land, because it separates the branches of the river Connecticut, from those of Merrimack. In this ridge is the Grand Monadnock, twenty-two miles east of the river Connecticut, and ten miles north of the fouthern boundary line. Thirty miles north of this, lies Sunnapee mountain, and forty eight miles farther, in the fame direction, is Mooshelock. The ridge then is continued, northeafterly, dividing the waters of the river Connecticut from those of Saco and Amarifcoggin. Here the mountains rife much higher, and the most elevated summits in this range, are the White mountains.

Mountains appear of different colours, according to the nature of their exterior furface, the feafon of the year, and the distance of the observer. They are all covered with wood, the smaller ones wholly, the larger have bald fummits, which appear white, as long as the fnow remains; but at other times, vary their colour according to the distance of the observer. If he is very nigh, they appear of the grey colour of the rock, and the farther he recedes, their appearance is a paler blue, till it becomes nearly of the colour of the fky. The woody parts of mountains when viewed at a small distance, are green, at a greater distance, blue. From some favorable fituations, all these varieties may be seen at once; mountains of different shades, textures and elevations, are prefented to the eye of the curious observer.

The wood on these mountains, is of various kinds but they have all more or less of the evergreens, as pine, spruce, hemlock and fir, intermixed with shrubs and vines. It is univerfally observed that trees of every kind diminish in their fize toward the fummit; many of them, though fhort, appear to be very aged. On fome mountains we find a thrubbery of hemlock and fpruce, whose branches are knit together so as to be impenetrable. The fnow lodges on their tops, and a cavity is formed underneath. These are called by the Indians, Hakmantaks.

On the tops of feveral of the highest mountains, are small collections of water, and on others marshy spots, which are frequented by aquatic birds. The roads over these mountains which are passable, are frequently wet and miry, while the valleys below are dry. About two or three feet under the surface of the mountain, is a firm earth, called the pan, which is impenetrable by water; the rains and dews are therefore retained in the softer soil, or formed into springs and brooks. This soil is made by the rotting of sallen leaves and wood, the growth of past ages.

We frequently observe large rocks detached from the mountains, some of them so distant from the base, that they could not have rolled thither but in some convulsion of the earth. Smaller masses are frequently dislodged by the thawing of the ground in the spring, after it has been heaved up by the frost. In the year 1746, a party who were ranging the woods, in the neighbourhood of the White mountains, on a warm day, in the month of March, were alarmed with a repeated noise, which they supposed to be the firing of guns. On further search, they found it to be caused by rocks, falling from the south side of a steep mountain.*

Mountainous countries are observed to be most subject to earthquakes; and the nearer any lands are to mountains, it may be expected that these

^{*} Letter of Walter Bryent, Esq. who was one of the party.

commotions will be more frequent. New-England has never been vifited with destructive earthquakes; but more shocks have been observed in its northern than in its southern parts. After the great shocks in 1727 and 1755, which were perceived through a great part of the continent, smaller shocks were more frequent in New-Hampshire than at Boston. From 1755 to 1774, scarcely a year passed without some repetition; from that time to 1783, none were observed; and there have been but two or three since.

Several phenomena respecting the larger mountains, afford matter of amusement; and some are of real use. People who live near them, humouroufly style the mountains their almanack, because, by the afcent and attraction of vapors, they can form a judgment of the weather. If a cloud is attracted by a mountain, and hovers on its top, they predict rain; and if after rain, the mountain continues capped, they expect a repetition of showers. A florm is preceded for feveral hours, by a roaring of the mountain, which may be heard ten or twelve miles. This is frequently observed by people who live near the grand Monadnock. It is also faid, that when there is a perfect calm on the fouth side, there is fometimes a furious wind on the north, which drives the fnow, fo that it is feen whirling far above the trees.*

The town of Moultonborough lies under the S. W. fide of the great Offapy mountain; and it is there observed, that in a N. E. storm, 'the wind 'falls over the mountain, like water over a dam; 'and with such a force as frequently to unroof the 'houses.'†

The altitude of this mountain, has not been afcertained; but that of the grand Monadnock was measured in 1780, by James Winthrop, Esq. by

^{*}Ainsworth's MS, letter. +:

[†] Shaw's MS, letter.

means of a barometer, and the table of corresponding heights, in Martin's *Philosophia Britanica**. At the base, on the north side, the barometer being at 28,4, gave an elevation of 1895 feet. At the upper edge of the wood, it was 27,0, which denoted 2082 feet; and at the highest point of the rock, 26,4, which announced an elevation of 3254 feet above the level of the sea.

The base of this mountain is about five miles in diameter, from north to south; and about three, from east to west. Its summit is a bald rock; on some parts of it are large piles of broken rocks; and on the sides are some appearances of the explosion of subterraneous sires.

A fimilar phenomenon has been observed on a mountain, in the township of Chesterfield, adjoining Connecticut river, called West river mountain. About the year 1730, the garrifon of Fort Dummer, diftant four miles, was alarmed with frequent explofions, and with columns of fire and fmoke, emitted from the mountain. The like appearances have been observed at various times since; particularly, one in 1752, was the most violent of any. There are two places, where the rocks bear marks of having been heated and calcined. A company of perfons having conceived a notion of precious metals being contained in this mountain, have penetrated it in various directions; and have found further evidences of internal fires; particularly a large quantity of *fcoria*, in fome parts loofe, in others adhering to the rocks. The only valuable effect of their industry, is the discovery of a fine, soft, yellow earth, which when burned, is changed into a brown pigment; and another of the colour of the peach bloffom. There is also observed on the earth, which has been thrown out, a white incrustation, which has the taste of nitre. The top of the mountain is

^{*} Vol. 11. page 132.

an area, of about twenty rods fquare, which is hollow; and in a wet feafon, is filled with water, as is common on the tops of mountains; but there is no appearance of fuch a crater as is peculiar to volcanos. Under the mountain, are many fragments of rock, which have fallen from it; but whether by explosions, or any other convulsions, or by force of the frost, cannot be ascertained. An account of these appearances was sent to the Academy of arts and sciences, by the late Daniel Jones, Esq. of Hinfdale.* Since which, it is faid, that the noise has been again heard; but in a late visit to the mountain, by the Rev. Mr. Gay, no fign of any recent explosion, could be discovered; nor can any thing be added to what Mr. Jones has written on the Subject. +

^{*} Memoirs Vol. 1. page 312. † Gay's MS, letter Oct. 29, 1790.

CHAP. IV.

Particular Description of the White Mountains.

FROM the earliest settlement of the country, the White mountains have attracted the attention of all forts of perfons. They are undoubtedly the highest land in New-England, and in clear weather, are discovered before any other land, by vessels coming in to the eaftern coast; but by reason of their white appearance, are frequently mistaken for clouds. They are visible on the land at the distance of eighty miles, on the fouth and foutheast fides; they appear higher when viewed from the northeast, and it is faid, they are feen from the neighbourhood of Chamble and Quebec. The Indians gave them the name of Agiocochook: They had a very ancient tradition that their country was once drowned, with all its inhabitants, except one Powaw and his wife, who, forefeeing the flood, fled to these mountains, where they were preferved, and that from them the country was re-peopled.* They had a fuperstitious veneration for the fummit, as the habitation of invisible beings; they never ventured to ascend it, and always endeavoured to diffuade every one from the From them, and the captives, whom they fometimes led to Canada, through the passes of these mountains, many fictions have been propagated, which have given rife to marvellous and incredible ftories; particularly, it has been reported, that at immense and inaccessible heights, there have been feen carbuncles, which are supposed to appear luminous in the night. Some writers, who have at-

[&]quot;Josselyn's voyage to New-England, p. 187.

tempted to give an account of these mountains, have ascribed the whiteness of them, to shining rocks, or a kind of white moss; and the highest summit has been deemed inaccessible, on account of the extreme cold, which threatens to freeze the traveller, in the midst of summer.

Nature has, indeed, in that region, formed her works on a large scale, and presented to view, many objects which do not ordinarily occur. A person who is unacquainted with a mountainous country, cannot, upon his first coming into it, make an adequate judgment of heights and distances; he will imagine every thing to be nearer and less than it really is, until, by experience, he learns to correct his apprehensions, and accommodate his eye to the magnitude and situation of the objects around him. When amazement is excited by the grandeur and sublimity of the scenes presented to view, it is necessary to curb the imagination, and exercise judgment with mathematical precision; or the temptation to romance will be invincible.

The White mountains are the most elevated part of a ridge, which extends N. E. and S. W. to an immenfe distance. The area of their base, is an irregular figure, the whole circuit of which, is not less than fixty miles. The number of fummits within this area, cannot at present be ascertained, the country round them being a thick wilderness. The greatest number which can be seen at once, is at Dartmouth, on the N. W. fide, where feven fummits appear at one view, of which four are bald. Of thefe, the three highest are the most distant, being on the eastern fide of the cluster; one of these is the mountain which makes fo majestic an appearance all along the shore of the eastern counties of Massachusetts: It has lately been distinguished by the name of Mount WASHINGTON.

To arrive at the foot of this mountain, there is a continual afcent of twelve miles, from the plain of Pigwacket, which brings the traveller to the height of land, between Saco and Amarifcoggin rivers. At this height there is a level of about a mile square, part of which is a meadow, formerly a beaver pond, with a dam at each end. Here, though elevated more than three thousand feet above the level of the fea, the traveller finds himfelf in a deep valley. On the east is a steep mountain, out of which issue feveral fprings, one of which is the fountain of Ellis river, a branch of Saco, which runs fouth; another of Peabody river, a branch of Amarifcoggin, which runs north. From this meadow, toward the west, there is an uninterrupted afcent, on a ridge, between two deep gullies, to the fummit of Mount Washington.

The lower part of the mountain is shaded by a thick growth of spruce and fir. The surface is composed of rocks, covered with very long green moss, which extends from one rock to another, and is, in many places, so thick and strong, as to bear a man's weight. This immense bed of moss, serves as a sponge, to retain the moisture brought by the clouds and vapours, which are frequently rising and gathering round the mountains; the thick growth of wood, prevents the rays of the sun from penetrating to exhale it; so that there is a constant supply of water deposited in the crevices of the rocks, and issuing in the form of springs, from every part of the mountain.

The rocks which compose the surface of the mountain, are, in some parts, slate, in others, slint; some specimens of rock chrystal have been found, but of no great value. No lime stone has yet been discovered, though the most likely rocks have been tried with aquasortis. There is one precipice, on the

eaftern fide, not only completely perpendicular, but composed of square stones, as regular as a piece of masonry; it is about five feet high, and from fifteen to twenty in length. The uppermost rocks of the mountain, are the common quartz, of a dark grey colour; when broken, they shew very small shining specks, but there is no such appearance on the exterior part. The eastern side of the mountain, rifes in an angle of 45 degrees, and requires fix or feven hours of hard labour to afcend it. Many of the precipices are fo fleep, as to oblige the traveller to use his hands, as well as feet, and to hold by the trees, which diminish in fize, till they degenerate to fhrubs and bushes; above these, are low vines, some bearing red, and others blue berries, and the uppermost vegetation is a species of grass, called wintergrafs, mixed with the mofs of the rocks.*

Having furmounted the upper and steepest precipice, there is a large area, called the plain. It is a dry heath, composed of rocks covered with moss,

* "At the base of the summit of Mount Washington, the limits of vegetation may with propriety be fixed. There are indeed, on some of the rocks, even to their apices scattered specks of a mossy appearance; but I conceive them to be extraneous substances, accidentally adhering to the rocks, for I could not discover, with my botanical microscope, any part of that plant regularly formed. The limits of vegetation at the base of this summit, are as well defined as that between the woods and the bald or mossy part. So striking is the appearance, that at a considerable distance, the mind is impressed with an idea, that vegetation extends no farther than a line, as well defined as the penumbra and shadow, in a lunar eclipse. The stones I have by me, from the summit, have not the smallest appearance of moss upon them.

"There is evidently the appearance of three zones—1, the woods—2, the bald mossy part—3, the part above vegetation. The same appearance has been observed on the

Alps, and all other high mountains.

"I recollect no grass on the plain. The spaces between the rocks in the second zone, and on the plain, are filled with spruce and fir, which, perhaps, have been growing ever since the creation, and yet many of them have not attained a greater height than three or four inches, but their spreading tops are so thick and strong, as to support the weight of a man, without yielding in the smallest degree. The snows and winds keeping the surface even with the general surface of the rocks. In many places, on the sides, we could get glades of this growth, some rods in extent, when we could, by sitting down on our feet, slide the whole length. The tops of the growth of wood were so thick and firm, as to bear us currently, a considerable distance, before we arrived a t the utmost boundaries, which were almost as well defined as the water on the shore of a pond. The tops of the wood, had the appearance of having been shorn off, exhibiting a smooth surface, from their upper limits, to a great distance down the mountain."

MS. of Dr. Cutler.

and bearing the appearance of a pasture, in the beand bearing the appearance of a patture, in the beginning of the winter feafon. In some openings, between the rocks, there are springs of water, in others dry gravel. Here the grous or heath bird resorts, and is generally out of danger; several of them were shot by some travellers in October, 1774. The extent of this plain is uncertain; from the eastern side, to the foot of the pinnacle, or sugarloaf, it is nearly level, and it may be walked over in less than an hour. The sugar loaf, is a pyramidal heap of grey rocks, which, in some places, are dal heap of grey rocks, which, in fome places, are formed like winding steps. This pinnacle has been ascended in one hour and a half. The traveller having gained the fummit, is recompensed for his toil, if the fky be ferene, with a most noble and extensive prospect. On the S. E. side, there is a view of the Atlantic ocean, the nearest part of which, is fixty-five miles, in a direct line. On the W. and N. the prospect is bounded by the high lands, which separate the waters of Connecticut and Amariscoggin rivers, from those of Lake Champlain and St. Lawrence. On the fouth, it extends to the fouthernmost mountains of New-Hampshire, comprehending a view of the Lake Winipiseogee. On every fide of these mountains, are long winding gullies, beginning at the precipice below the plain; and deepening in the descent. In winter, the snow lodges in these gullies; and being driven, by the N. W. and N. E. wind, from the top, is deepest in those which are situated on the southerly side. It is observed to lie longer in the spring on the south, than on the N. W. side, which is the case with many other hills in New-Hampshire.

A ranging company, who ascended the highest mountain, on the N. W. part, April 29th, 1725, found the snow four feet deep on that side; the summit was almost bare of snow, though covered with

white frost and ice, and a small pond of water, near the top, was hard frozen.

In 1774, fome men, who were making a road through the eastern pass of the mountain, ascended the mountain to the fummit, on the 6th of June, and on the fouth fide, in one of the deep gullies, tound a body of fnow thirteen feet deep, and fo hard, as to bear them. On the 19th of the fame month, fome of the same party ascended again, and in the same fpot, the fnow was five feet deep. In the first week of September, 1783, two men, who attempted to afcend the mountain, found the bald top fo covered with fnow and ice, then newly formed, that they could not reach the fummit; but this does not hap. pen every year fo foon; for the mountain has been afcended as late as the first week in October, when no fnow was upon it; and though the mountains begin to be covered, at times, with fnow, as early as September, yet it goes off again, and feldom gets fixed till the end of October, or the beginning of November; but from that time it remains till July.* In the year 1784, fnow was feen on the fouth fide of the largest mountain, till the 12th of July; in 1790, it lay till the month of August.

* The following is a journal of the appearances of the mountain, in the autumnal months of 1784, observed by the Rev. Mr. Haven, of Rochester, whose house is in plain view of the south side of the mountain, distant about sixty miles.

Sept. 17 and 18, a N. E. storm of rain. 20, Mountain appeared white.

22, Of a pale blue.

Oct. 3 and 4. Rain, succeeded by frest.

5, Mountain white. 8, Of a pale blue.

9, White at the west end.

10, White in the morning, most part blue P. M.

22 and 24, Blue.

28, White at the west end, the rest blue.

Nov. 2, A spot of white at the west end.

4, Uniformly white.

5, Very white.

From this time, to the 23d, when the weather was clear enough to see so far, the lower part of the mountain appeared very white; the summit involved in squally clouds.

N. B. the west end is the highest part.

During this period, of nine or ten months, the mountains exhibit more or less of that bright appearance, from which they are denominated white. In the spring, when the snow is partly dissolved, they appear of a pale blue, ftreaked with white; and after it is wholly gone, at the distance of fixty miles, they are altogether of the same pale blue, nearly approaching a fky colour; while at the fame time, viewed at the diffance of eight miles or lefs, they appear of the proper colour of the rock. These changes are observed by the people who live within constant view of them; and from these facts and observations, it may with certainty be concluded, that the whiteness of them is wholly caused by the snow, and not by any other white substance, for in fact, there is none. There are indeed in the summer months, some streaks, which appear brighter than other parts; but these, when viewed attentively with a telescope, are plainly discerned to be the edges or the sides of the long deep gullies, enlightened by the fun, and the dark parts are the shaded fides of the same; in the course of a day, these fpots may be feen to vary, according to the position of the fun.

A company of gentlemen visited these mountains in July, 1784, with a view to make particular observations on the several phenomena which might occur. It happened, unfortunately, that thick clouds covered the mountains almost the whole time, so that some of the instruments, which, with much labour, they had carried up, were rendered useless. These were a sextant, a telescope, an instrument for ascertaining the bearings of distant objects, a barometer, a thermometer and several others for different purposes. In the barometer, the mercury ranged at 22,6, and the thermometer stood at 44 degrees. It was their intention to have placed one

of each at the foot of the mountain, at the fame time that the others were carried to the top, for the purpose of making corresponding observations; but they were unhappily broken in the course of the journey, through the rugged roads and thick woods; and the barometer, which was carried to the fummit, had fuffered fo much agitation, that an allowance was necessary to be made, in calculating the height of the mountain, which was computed in round numbers, at five thousand and five hundred feet above the meadow, in the valley below, and nearly ten thousand feet above the level of the sea.* They intended to have made a geometrical menfuration of the altitude; but in the meadow, they could not obtain a base of sufficient length, nor see the fummit of the fugar loaf; and in another place, where these inconveniences were removed, they were prevented by the almost continual obscuration of the mountains, by clouds.

Their exercife, in ascending the mountain, was so violent, that when Doctor Cutler, who carried the thermometer, took it out of his bosom, the mercury stood at sever heat, but it soon fell to 44°, and by the time that he had adjusted his barometer and thermometer, the cold had nearly deprived him of the use of his singers. On the uppermost rock, the Rev. Mr. Little began to engrave the letters N. H. but was so chilled with the cold, that he gave the instruments to Col. Whipple, who sinished the letters. Under a stone, they left a plate of lead, on which their names were engraven. The sun shone clear while they were passing over the plain, but simmediately after their arrival at the highest sum-

^{*} This computation was made by the Rev. Dr. Cutler. Subsequent observations and calculations have induced the author to believe the computation of his ingenious friend too moderate, and he is persuaded, that whenever the mountain can be measured with the requisite precision, it will be found to exceed ten thousand feet, of perpendicutar altitude, above the level of the ocean.

mit, they had the mortification to be inveloped in a dense cloud, which came up the opposite side of the mountain. This unfortunate circumstance, prevented their making any farther use of their instru-ments. Being thus involved, as they were descending from the plain, in one of the long, deep gullies, not being able to fee to the bottom, on a fudden, their pilot flipped, and was gone out of fight, though happily, without any other damage, than tearing his clothes. This accident obliged them to ftop. When they turned their eyes upward, they were astonished at the immense depth and steep-ness of the place, which they had descended by fixing their heels on the prominent parts of the rock, and found it impracticable to reascend the fame way; but having discovered a winding gully, of a more gradual ascent, in this they got up to the plain, and then came down on the eastern side; this deep gully, was on the S. E. From these circumstances, it may be inferred, that it is more practicable and fafe, to afcend or descend on the ridges, than in the gullies of the mountain.

These vast and irregular heights, being copiously replenished with water, exhibit a great variety of beautiful cascades; some of which fall in a perpendicular sheet or spout, others are winding and sloping, others spread, and form a bason in the rock, and then gush in a cataract over its edge. A poetic fancy may find full gratification amidst these wild and rugged scenes, if its ardor be not checked by the fatigue of the approach. Almost every thing in nature, which can be supposed capable of inspiring ideas of the sublime and beautiful, is here realized. Aged mountains, stupendous elevations, rolling clouds, impending rocks, verdant woods, chrystal streams, the gentle rill, and the roaring torrent, all

conspire to amaze, to soothe and to enrapture.

On the western part of these mountains is a pass, commonly called the notch, which, in the narrowest part, measures but twenty-two feet, between two perpendicular rocks. From the height above it, a brook descends, and meanders through a meadow, formerly a beaver pond. It is furrounded by rocks, which, on one fide, are perpendicular, and on the others, rife in an angle of forty-five degrees-a strikingly picturefque fcene! This defile was known to the Indians, who formerly led their captives through it to Canada; but it had been forgotten or neglected, till the year 1771, when two hunters passed through it, and from their report, the proprietors of lands, on the northern parts of Connecticut river, formed the plan of a road through it, to the upper Cohos, from which it is distant twenty-five miles. Along the eastern side of the meadow, under the perpendicular rock, is a caufeway, of large logs, funk into the mud by rocks, blown with gunpowder, from the mountain. On this foundation, is conftructed a road, which paffes through the narrow defile, at the fouth end of the meadow, leaving a passage for the rivulet, which glides along the western fide. This rivulet, is the head of the river Saco; and on the north fide of the meadow, at a little diftance, is another brook, which is the head of Amonoofuck, a large branch of Connecticut river. The latitude of this place, is 44° 12', N.

The rivulet, which gives rife to Saco, defcends towards the fouth; and at a little distance from the defile, its waters are augmented by two streams from the left, one of which descends in a trench of two seet wide, and is called the slume, from the near refemblance which it bears to an artificial slume. Over these are thrown strong bridges; and the whole construction of this road, is firm and durable; much labour has been expended upon it, and the net pro-

ceeds of a confiscated estate, were applied, to defray the expense. In the descent, the pass widens, and the stream increases; but for eight or ten miles from the notch, the mountains on each fide are fo near, as to leave room only for the river and its intervales: which are not more than half a mile wide. In the course of this descent, several curious objects present themselves to view. On the side of one mountain. is a projection, refembling a shelf, on which stand four large square rocks, in a form resembling as many huge folio volumes. In two or three places, at immense heights, and perfectly inaccessible, appear rocks, of a white and red hue, the furface of which is polished, like a mirror, by the constant trickling of water over them. These being exposed to the west and south, are capable, in the night, of reflecting the moon and star beams to the wondering traveller in the deep, dark valley below, and by the help of imagination, are sufficient to give rife to the fiction of carbuncles.

To encompass these mountains as the roads are laid out, through the eastern and western passes, and round the northern fide of the whole cluster, it is necessary to travel more than feventy miles, and toford eight confiderable rivers, beside many smaller streams. The distance between the heads of rivers, which purfue fuch different courses, from this immense elevation, and which fall into the sea, so many hundered miles afunder, is fo fmall, that a traveller may, in the course of one day, drink the waters of Saco, Amarifcoggin and Connecticut rivers. These waters are all perfectly limpid and sweet, excepting one brook, on the eastern fide of Mount Washington, which has a saponaceous taste, and is covered with a very thick and strong froth. It is faid, that there is a part of the mountain where the magenetic needle refuses to traverse; this is probably caused by a body of iron ore. It is also said, that a mineral, supposed to be lead, has been discovered, near the eastern pass; but that the spot cannot now be found. What stores the bowels of the mountains contain, time must unfold; all searches for subterraneous treasures, having hitherto proved fruitless. The most certain riches which they yield, are the freshets, which bring down the soil, to the intervales below, and form a fine mould, producing, by the aid of cultivation, corn and herbage, in the most luxuriant plenty.

CHAP. V.

Rivers and other Waters.

NATURE has formed fuch a connection between mountains and rivers, that in describing one, we are unavoidably led to speak of the other.

New-Hampshire is so situated, that five of the largest rivers in New-England, either take their rise within its limits, or receive much of their water from its mountains. These are the Connecticut, Amariscoggin, Saco, Merrimack and Pascataqua.

Connecticut river rises in a ridge of mountains, which extend northeafterly, to the gulph of St. Lawrence. It has been furveyed, about twenty-five miles beyond the forty-fifth degree of latitude, to the fpring head of its northwestern branch. This river extends, on the western border of New-Hampfhire, about one hundred and feventy miles. general course, for the first thirty miles, is fouth; for the next thirty, southwest; for the next fifty, fouth-fouthwest; and for the remainder of its course, it inclines more to the fouth; but there are numerous ferpentine curves, of almost every direction, in the extent of these general lines. Besides many streams of less note, it receives, on its eastern side, feven very confiderable rivers; upper Amonoofuck, Ifrael and John's rivers, lower Amonoofuck, Sugar river, Cold river and Ashuelot, all which originate within the limits of New-Hampshire, on the western part of the height of land.

Amarifcoggin river, rifes near the end of the dividing line, between New-Hampshire and the old Province of Maine. The lake Umbagog, and sever-

al fmaller ponds, flow into it. From that lake, the river runs in a fouthern direction, nearly parallel to Connecticut river, and distant from it, about twenty-five miles; but it is deeper, wider, and more rapid. In croffing the country, from Canada, travellers have passed Connecticut river, thinking it only a brook, and then striking on Amarifcoggin, have mistaken it for Connecticut, and followed its course. The mistake, however, may be discovered, by obferving, that after these rivers have run parallel about twenty miles, the inclination of Amarifcoggin, is to the cast, and of Connecticut, to the west. After Amarifcoggin begins to take an eaflerly direction, it foon croffes the line, into the Province of Maine, and having watered a great extent of country, in which many new townships are now settling, it forms a junction with Kenebeck, and flows into the

fea at Sagadahock.

The head of Saco river, is in the White mountains, at the western pass, commonly called the notch; near which, alfo, rifes the lower Amonoofuck, which runs westerly, into Connecticut river. Saco takes a foutherly direction, down the mountain. A large branch of it, called Ellis river, rifes at the eastern pass of the mountains, where also originates Peabody river, a branch of Amarifcoggin. The fountain heads of these two rivers are so near, that a man may fet his foot in one, and reach, with his hand, to the other. In less than half a mile, southward from this fountain, a large stream, which runs down the highest of the White mountains, falls into Ellis river, and in about the same distance from this, another falls from the fame mountain; the former of those streams is Cutler's river, the latter New river. The New river first made its appearance during a long rain, in October, 1775. It bore down many rocks and trees, forming a scene of ru-

in for a long courfe. It has ever fince been a constant stream, and where it falls into Ellis river, prefents to view a noble cascade, of about one hundred feet, above which, it is divided into three streams, which iffue out of the bowels of the mountain. Several other branches of Saco river, fall from different parts of this immense cluster of mountains, and unite about twelve or fifteen miles from their fource, at the plain of Pigwacket. These streams have a fleep descent, and a rapid current, and the river Saco is observed to rife and overflow very suddenly, in a time of rain, and to subside as suddenly, after the rain has ceased. It passes, in a very serpentine courfe, through the township of Conway, then crosses the line, into Brownfield and Friburg, and its courfe from thence to the fea, is about forty-five miles, foutheast. It receives, on its western fide, two rivers, called the great and little Offapy; the former of which, comes from a large pond, under a high mountain, both of which bear the fame name; the latter flows out of a fmaller pond, on the division line, and falls into Saco river, about nine miles below the mouth of the other. In fome maps, the leffer Offapy is laid down as a branch of the greater, but they are two distinct branches of Saco river.

Merrimack river is formed by the confluence of Pemigewasset and Winipiseogee rivers; the former slows from the eastern part of the ridge called the height of land. To one branch of it, Moosehelock mountain gives rise; another comes from the S. W. extremity of the White mountains, and a third from the township of Franconia. The general course of this river, from its source, is south, about sifty miles. Receives, on its western side, Baker's river, which comes from the height of land, a stream from New Chester pond, and another called Smith's river, besides many smaller ones. On its eastern side, it re-

ceives a stream from Squam ponds, with several large and finall brooks. In its long defcent from the mountains, there are many falls, and its banks, in fome places, are very fleep and rugged. Winipiseogee river, comes from the lake of that name, and unites its waters with Pemigewaffet, at the lower end of Sanborntown. From this junction, the confluent stream bears the nang of Merrimack, to the fea. It receives, on its weltern fide, before it croffes the boundary line, Blackwater, Contoocook, Pifcataquoag, Souhegan, and Nathua rivers. On its castern fide, it receives Bowcook, Suncook, Cohas, Beaver, Spicket and Powow rivers. It runs about ninety miles, first in a foutherly, then in an eafterly direction, and falls into the fea at Newbury-Port.

In its course through New-Hampshire, it passes over several falls, the most beautiful of which, is called the isle of Hookset, but the grandest is Amuskeag. Hookset is about eight miles below the town of Concord; the descent of the water is not more than sisteen seet perpendicular, in thirty rods; a high rock divides the stream, and a smaller rock lies between that and the western shore. From an eminence, on the western side, there is a delightful landscape; the water above and below the fall, the verdant banks, the cultivated fields, and the distant hills, in the back ground, form a picturesque scene, which relieves the eye of the traveller from the dull

uniformity of a road through the woods.

Eight miles below Hookfet, lies Amusteag fall; it consists of three large pitches, one below the other, and the water is supposed to fall about eighty feet, in the course of half a mile. The river here is so crooked, that the whole of the fall cannot be viewed at once; though the second pitch, which may be seen from the road, on the western side, appears

truly majestic. In the middle of the upper part of the fall, is a high, rocky island, on some parts of which, are feveral holes, of various depths, made by the circular motion of fmall ftones, impelled by the force of the descending water.*

At Walpole, is a remarkable fall, in Connecticut river, t formerly known by the name of the great fall. The breadth of the river, above the fall, is twenty-two rods. A large rock divides the fiream into two channels, each about ninety feet wide, on the top of the thelving bank. When the water is low, the eaftern channel appears croffed, by a bar of folid rock, and the whole stream falls into the western channel, where it is contracted to the breadth of fixteen feet, and flows with aftonishing rapidity; but the depth of the water is not known, nor has the perpendicular height of the fall been afcertained. There are feveral pitches, one above another, in the length of half a mile, the largest of which, is that where the rock divides the stream. Notwithstanding the velocity of the current, the falmon pass up this fall, and are taken many miles above; but the shad proceed no farther.

In the rocks of this fall, are many cavities, like those at Amuskeag, some of which are eighteen inches wide, and from two to four feet deep. On the steep sides of the island rock, hang several arm chairs, fastened to ladders, and secured by a counterpoife, in which fishermen sit to catch falmon and fhad with dipping nets.

† This fall has been described in the most extrawagant terms, in an anonymous publication, entitled 'the History of Connecticut;' and the description has been frequently

resailed in the news papers, and other periodical works.

^{*} The following account of these cavities, was formerly sent to the royal society, and

printed in their philosophical transactions, vol. xxix. page 70.

"A little above one of the falls of this river, at a place called Amuskeag, is a huge rock, in the milst of the stream, on the top of which, are a great number of pits, made exactly round, like barrels or hogsheads of different capacities, some of which are capable of holding several tuns. The natives know nothing of the making of them; but the neighbouring Indians used to hide their provisions here, in the wars with the Maquas, affirming that God had cut them out for that purpose; but they seem plainly to be ertificial.

Over this fall, in the year 1785, a strong bridge of timber was constructed by Col. Enoch Hale. Its length is three hundred and fixty-five feet, and it is supported in the middle by the great rock. The expense of it was eight hundred pounds, and by a law of the State, a toll is collected from passengers. This is the only bridge across Connecticut river; but it is in contemplation to erect one, thirty-fix miles above, at the middle bar of White river fall, where the passage for the water, between the rocks, is about one hundred feet wide. This place, is in the township of Lebanon, two miles below Dart-

mouth college.

It would be endless to describe, particularly the numerous falls, which, in the mountainous parts of the country, exhibit a great variety of curious appearances, many of which have been represented in the language of fiction and romance. But there is one in Salmon-fall river, which, not for its magnitude, but for its fingularity, deferves notice. It is called the flume, and is fituate between the townfhips of Rochester and Lebanon. The river is here confined between two rocks, about twenty-five feet high; the breadth, at the top of the bank, is not more than three rods. I once visited this place, in a time of fevere drought (September, 1782,) when the flat rocks, which form the bed of the river, were mostly dry. The flume is about four rods in length, and its breadth is various, not more in any part than two feet and a half, and in one part, fcarcely an hand breadth; but here the water had a fubterraneous passage.

In the flat rock, are divers cavities, like those abovementioned; some of them are cylindrical, and others globular; all of them contained a quantity of small stones and gravel, and in one of them

was a large turtle and feveral frogs. The dimenfions of five of these holes, were as follows:

Diameters in	Depth in
feet and inches.	feet and inches.
7	(filled with stones.)
3—	3——
13	4
1	3——
4	1-4

The largest of these cavities, is considerably higher than where the water now flows, unless in a great freshet.

From a feries of observations, made by James Winthrop, Efq. on the rivers of New-Hampshire and Vermont, he deduces this conclusion, 'that the descent of our rivers, is much less than European ' theorists have supposed to be necessary to give a current to water. In the last hundred and fifty miles of 'Connecticut river, it descends not more than two ' feet in a mile. Onion river, for forty-three miles from its mouth, falls four feet in a mile, and is exceedingly rapid between the cataracts. We may reckon the shore at Quebec, to be at the level of the fea, and two hundred miles from that part of ' lake Champlain, where the current begins. The difference of elevation, will be three hundred and forty-two feet, or twenty inches to a mile. If we extend our comparison from Quebec, to the top of the Green mountains, at Williamston, the elevation will be one thousand fix hundred and ' fixty-fix feet, and the distance, about three hundred 'and twenty miles; which is five feet two inches and a half to a mile.'*

It is a work of great curiofity, but attended with much fatigue, to trace rivers up to their fources, and observe the uniting of springs and rivulets, to form

MS. letter of James Winthrop, Esq.

those streams which are dignified by majestic names, and have been revered as Deities by savage and superstitious people. Rivers originate in mountains, and find their way through the crevices of rocks, to the plains below, where they glide through natural meadows, often overslowing them with their freshets, bringing down, from the upper grounds, a fat slime, and depositing it on the lower, which renews and fertilizes the soil, and renders these intervale lands extremely valuable, as no other manure is needed on them for the purposes of agriculture.

It has been afferted, that* 'rivers run in a more 'direct channel, as they immediately leave their 'fources; that their finuofities and turnings become 'more numerous as they proceed; that it is a certain fign among the natives of America, that they 'are near the fea, when they find the rivers wind-'ing and changing their direction, and that this is 'even now become an indication to the Europeans 'themselves in their journies through these track-'less forests.' It is amusing to observe how the European writers, in their accounts of America, entertain themselves and their readers, with a detail of circumstances, which have no foundation but in their own fancies. Such a remark would never have occurred to any person who had traced the rivers of New-England to their fources. The fact is, that rivers run wherever they find a paffage, whether it be crooked or ftrait; and there are as many windings and finuofities, at the distance of an hundred miles from the fea, as at any leffer distance. No judgment can be formed of the nearness of the ocean from this circumstance.

There is an important remark concerning these rivers, which would not readily occur to any, but those who have been in the way of actual observa-

[&]quot; Goldsmith's history of the Earth, Vol. I. page 203.

tion; and that is, that rivers change their courses, and leave their ancient channels dry. Many places may be seen in our wilderness, where rivers have rolled for ages, and where the stones are worn smooth as on the sea shore, which are now at a considerable distance from the present beds of the rivers. In some places, these ancient channels are converted into ponds, which, from their curved form, are called horse-shoe ponds; in others, they are overgrown with bushes and trees. These appearances are frequent in the mountainous part of the country. Connecticut river, which divides two States, has, in some places, changed its course. Many acres have been thus made in a few years, and the land is of an excellent quality.

There are generally two strata of intervale lands, on the borders of the large rivers, one is overflowed every year, the other, which is several feet higher, and further removed from the water, is overflowed only in very high freshets. In some places a third is found, but this is rare. The banks of the upper and lower intervales, are often parallel to each other, and when viewed from the opposite side, appear like the terraces of an artificial garden.

These intervale lands are of various breadth, according to the near or remote situation of the hills. On Connecticut river, they are from a quarter of a mile to a mile and a half, on each side. In digging into them, large sound trunks of trees are found at

various depths.

The freshets are not equally high every year. Masts have lain in the river above Amuskeag fall, two or three years, waiting for a sufficiency of water to float them over. They sometimes fall athwart the stream, and are broken; sometimes in a narrow passage, they are lodged so firmly across, as to be removed only by cutting; and sometimes

they are fo galled by the rocks, in their paffage, as to leffen their diameter, and confequently their value.

Every fpring there is more or lefs of a freshet, caused by the dissolving of the snow in the woods and mountains; if it be gradual, as it always is, when not accelerated by a heavy rain, no damage is done by the rifing of the water. Destructive floods have happened at other feafons of the year, as frequently as in the spring. In January, 1770, a remarkable inundation carried away the mills and bridges on feveral branches of the river Pafcataqua. A heavy rain, which continued twelve hours, and which could not penetrate the frozen earth, raifed the rivers fo high as to break up the ice, then from fourteen to eighteen inches thick, and as hard as marble; large cakes of it being carried down by the impetuous current, bore all before them. After this the rivers froze again, and the ice continued as usual, till the month of April. When the ice remains late in the fpring, it does not break up with violence; but dissolves gradually, till it disappears. In this manner the frozen lakes and ponds are reduced to fluidity.

In the great flood of October, 1775, when a new river broke out of the White mountains; the banks of Saco river were overflowed very fuddenly. Stacks of hay were carried off, cattle were drowned or otherwife killed, and the Indian corn, then ripe for harveft, was deftroyed. The river was of a deep brown colour for fourteen days, and when it fubfided, great alterations were observed, the bed of the river in some parts was widened, and the course of several of its branches changed; large ridges of pebbles were thrown up in the middle, forming two channels where there had been but one before.

Another flood happened in October, 1785, which

destroyed the fields, and carried off cattle and fwine on that river; and in other places fwept away bridges, mills, and great quantities of lumber. Some mills, on Salmon-fall river, were preserved by chains, one end of which was fastened to their principal timbers, and the other end to trees or posts fet in the ground. In Cochecho river, below the great fall, the water rose fourteen feet above high water mark. Immense quantities of drift wood are brought down by these freshets, from which the inhabitants of the lower towns, contiguous to the rivers, are fupplied with fuel, and they have learned to be extremely dextrous in towing on shore whole trees with their branches. But notwithflanding their activity, much escapes them, and is driven out to sea, and some of it is thrown back on the coast.

Saco river has risen twenty-five feet, in a great freshet; its common rise is ten feet. Pemigewasset river has also been known to rise twenty-five feet. Connecticut river, in a common freshet, is ten feet higher than its usual summer level. Its greatest

elevation does not exceed twenty feet.

Winipifeogee lake is the largest collection of water in New-Hampshire. It is twenty two miles in length, from S. E. to N. W. and of very unequal breadth, but no where more than eight miles. Some very long necks of land project into it, and it contains several islands, large and small. The mountains which surround it, give rise to many streams which flow into it; and between it and the mountains, and several lesser ponds, which communicate with it. Contiguous to this lake, are the townships of Moultonborough, on the N. W. Tuftonborough and Wolfborough on the N. E. Meredith and Gilmantown on the S. W. and a tract of land, called the Gore, on the S. E. From the S. E. ex-

tremity of this lake, called Merry-meeting bay, to the N. W. part called Senter-harbour, there is good navigation in the fummer, and generally a good road in the winter; the lake is frozen about three months, and many fleighs and teams, from the cir-

cumjacent towns, cross it on the ice.

The next largest lake, is Umbagog, in the northern extremity of the state. It is but little known, and no other survey has been make of it than was necessary for extending the divisional line between New-Hampshire and Maine, in 1789. Next to this, are Squam, in the township of Holdernesse; Sunnapee, in the townships of Wendel and Fisherssield, and great Ossapy, in the ungranted land of the Masonian purchase. Smaller ponds are very numerous, scarcely any town being without one or more. There is generally a current through them; but some have no visible outlet. Their waters are lim-

pid and fweet.

A remarkable circumstance is mentioned, respecting Mascomy pond, which lies partly in Lebanon and partly in Enfield, and vents into Connecticut river. It is about five miles in length, and one in breadth; its depth is from thirty to forty fathoms. The furrounding land bears evident marks that the furface of this pond was once thirty or forty feet higher than its present level. By what cause the alteration was made, and at what time, is unknown; but appearances indicate a fudden rupture, there being no fign of any margin between its former and present height. About a mile distant from its outlet, there is a declivity of rocks, forty feet higher than the stream, as it now runs. By the situation of these rocks, it appears that they were once a fall, over which the water flowed; but it has now made for itself a very deep channel, through folid earth, nearly a mile in length, where it feems confined for

futurity.*

In the township of Atkinson, 'in a large meadow, there is an island, containing feven or eight acres, 'which was formerly loaded with valuable pine 'timber, and other forest wood. When the mea-'dow is overflowed, by means of an artificial dam, this island rifes in the same degree as the water 'rifes, which is fometimes fix feet. Near the mid-'dle of this island, is a small pond, which has been 'gradually leffening ever fince it was known, and 'is now almost covered with verdure. In this place, 'a pole of fifty feet has disappeared, without finding 'a bottom. In the water of that pond, there have been fish in plenty; which when the meadow hath been flowed, have appeared there, and when the 'water hath been drawn off, have been left on the 'meadow; at which time the island fettles to its 'ufual state.'t

In the town of Rye, there was formerly a fresh pond, covering about one hundred and sifty acres, situate within ten or sifteen rods of the sea, being separated from it by a bank of sand. A communication was opened between this pond and the sea, in the year 1719, by which means the fresh water was drawn off, and the place is regularly overslowed by the tide, and yields large crops of salt hay.

Within this prefent year (1791) a canal has been cut through the marshes, which opens an inland navigation, from Hampton, through Salisbury, into Merrimack river, for about eight miles. By this passage, loaded boats may be conducted with the ut-

most ease and safety.

^{*} MS. Letters of the Hon. Elisha Payne, Esq. † MS. letter of the Rev. Stephen Peadody.

[#] MS. letter of Rev. Mr. Porter.

CHAP. VI.

Remarks on the Forest, Manner of Surveying, making Roads aud-Travelling.

Potential Notice of the gloomy appearance of an American forest, yet a contemplative mind may find in it many subjects of entertainment. The most obvious remark, is the silence which reigns through it. In a calm day, no sound is heard but that of running water, or perhaps the chirping of a squirrel, or the squalling of a jay. Singing birds do not frequent the thick woods; but in every opening, made by the hand of cultivation, their mel-

ody is delightful.

Another thing, worthy of observation, is the aged and majestic appearance of the trees, of which the most noble is the mast pine. This tree often grows to the height of one hundred and sifty, and sometimes two hundred seet. It is straight as an arrow, and has no branches but very near the top. It is from twenty to forty inches in diameter at its base, and appears like a stately pillar, adorned with a verdant capital, in form of a cone. Interspersed among these, are the common forest trees, of various kinds, whose height is generally about sixty or eighty seet. In swamps, and near rivers, there is a thick growth of underwood, which renders travelling difficult. On high lands, it is not so troublesome; and on dry plains, it is quite inconsiderable.

Amidst these wild and rugged scenes, it is amusing to observe the luxuriant sportings of nature. Trees are seen growing on a naked rock; their roots either penetrate some of its crevices, or run over its surface, and shoot into the ground. When a tree is contigu-

and cover it. Branches of different trees, but of the same species, sometimes intertwine, and even ingraft themselves, so as to grow together in one. On some trees, are found large protuberant warts, capable of being formed into bowls, which are very tough and durable. On rocks, as well as on trees, we find varieties of moss; it sometimes assumes a grotesque appearance, hanging in tusts, like long hair, from the branches; or inclosing the trunks; or spreading over rocks, like a carpet, and extending from one rock to another. It is observed that moss is thickest on the north sides of trees. By this mark the savages know their course in cloudy weather, and many of our hunters have learned of them, to

travel without a compass.

In laying out roads, and lines of townships, it is usual for the surveyor to make large measure, of which however, there is no certain standard. Some allow one in thirty, for the fwagging of the chain. The length of a man's arm to every half chain, has been allowed for inequality of furface. The half chain is most convenient in thick woods; but some have very abfurdly used a line; and if any allowance is made for its contraction by moisture, it must be arbitrary. Surveyors are often fworn to go according to their best skill and judgment; this they may do with great fincerity, and yet, for want of better skill, may commit egregious mistakes. The variation of the needle, has not in general been attended to with that caution which it demands, and from this negligence, many errors have arisen. It was once proposed, in the General Assembly, that durable monuments should be erected in convenient places, on a true meridian; by which all furveyors should be obliged to regulate their compasses; few of them, at that time, being skilled in the method of finding

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the variation by the fun's amplitude; but the pro-

posal was rejected.

The manner of making a new road, through the wilderness, is this: First, a surveyor and his party, with the compass and chain, explore the country, and where they find the land fuitable for a road, the trees are sported, by cutting out a piece of the bark, and at the end of every mile, the number is marked on the nearest tree. Then follow the axe-men, who clear away the bushes and fell the trees, in a space of three rods wide, cutting them as near as possible to the ground, that the flumps may not impede travelling; and if the trees are very long, they cut them again, into fuch lengths, as that the teamsters, by the help of chains and oxen, may draw them out of the way. In wet land, the trees thus felled, or others which are proper, are formed into causeways. and bridges. Rocks are either turned out of the road, or split by gunpowder or heated by fire and then foftened by water.

Roads are not brought to perfection at once, efpecially in rocky and hilly land; but after the first operations, they are passable for fingle horses and teams of oxen. As the earth is opened to the fun, many wet places are dried, and brooks are contracted; and as the land is more and more cleared, smaller ftreams disappear. The best kind of land for roads is where the pitch pine grows; this is generally level, or if not perfectly fo, yet always dry. The foil is fandy or gravelly; the trees are sparse; and the under growth confifts of brakes, fern and wortle bushes, which are easily subdued; but this kind of land is not profitable. The best land for cultivation, is a deep loamy foil, which makes miry roads, and needs much labor to be bestowed on bridges and causeways. For crosling small streams, the beaver dams are found very fafe and convenient. They are about three or four feet wide at the top, which is on a level with the water above, and is always firm and folid. New roads, therefore, are frequently laid out fo as to fave expense, by taking advantage of the labor of that useful animal.

When a road is constantly used, the feet of horses and cattle keep down the growth of bushes, which sprout, with great luxuriance, from the roots of felled trees; but if the road be neglected, these young shoots render travelling extremely inconvenient; and it is more difficult to clear them a second time. Men who are used to handle the axe, had rather attack a sturdy tree than hack the bushes. High winds frequently blow up large trees by the roots, or break them off above the ground. These windfallen trees often prove a great obstruction to new roads; a single horse may find his way over or round them; but if a team is to pass, the obstruction must be removed by the axe, for which reason, the drivers of teams are never unprovided with this necessary instrument.

The expense of making and keeping roads in repair, is generally borne by the proprietors and inhabitants of the towns through which they pass; though, in some instances, new roads have been explored and laid out, at the public expense. In each incorporated town, the law requires that surveyors of highways be annually chosen, whose business it is, to prevent or remove obstructions; to keep roads and bridges in repair; and to call upon the inhabitants for their respective quotas of labor or expense. These officers are invested with sufficient power to answer the beneficial end of their appointment; and in case of failure, they, or the towns are liable to be presented by the grand inquest of the county. It was formerly the custom, for those who were at work on the highways, to invite passengers to drink,

and expect a gratuity in return; but this beggarly

practice is almost entirely abolished.

Horses are the only beasts used for riding; though, in the mountainous parts of the country, mules might be more ferviceable, if the breeding of them were introduced. In travelling the roads along Connecticut river, which are, in many places, both steep and clayey, it is usual, at all seasons, if the weather be wet, to have the shoes of horses turned with sharp points. This is univerfally practifed in winter, when the earth is covered with ice and snow. Oxen are also then shod in the same manner. When a deep fnow has obstructed the roads, they are in fome places opened by an instrument called a snow plough. It is made of planks, in a triangular form, with two fide boards to turn the fnow out on either hand. This instrument is drawn by a large number of oxen, and loaded with as many people as can fland on it, whose weight makes a hard and level path. When fuch an inftrument is not at hand, a fled turned upfide down answers the purpose, though not fo effectually. These operations are conducted by the furveyors of highways who direct the fnow path to be made either in the common road, or through fields and other inclosures, as necessity requires.

In travelling through New-Hampshire, there are now few places so remote from public houses, or hospitable inhabitants, as to oblige the traveller to lodge in the woods; but when this happens, either by necessity or choice, a temporary hut may be constructed, in an hour, by a person furnished with an axe. For this purpose a dry situation is chosen, as near as may be to running water. The bark of hemlock or spruce is peeled, in pieces of three or four feet long, and slatted; two or three upright crotchets are set in the ground, on which a pole is

fixed horizontally; from the pole are laid other sticks, in a sloping position, to the ground; on these are laid the slatted pieces of bark, each lapped over the other, in the form of shingles: Under this shed, other pieces of bark are laid on the ground, for a floor, on which are strewed small twigs for a carpet. Before the open side of the hut, is made a large sire, toward which the traveller places his seet, and being wrapped in a blanket, he passes the night very comfortably, though, if the wind be unfavorable, he may be somewhat incommoded by smoke. He is in no danger from wild beasts, who never venture to approach a fire. People who are used to the woods, do not always give themselves the trouble to build a hut; but lie wrapped in their blanket by a fire; or, in foul weather, spread their blanket on sticks, and lie under it.

Within these last twenty years, the country has been much improved in respect to roads; and the communication between the distant parts of it is become, in a great measure, easy and commodious. Much, however, remains to be done, especially in the western and northern parts of the State. Connecticut river is so nearly parallel to the eastern coast of New-England, as to preserve almost the same distance from the sea, which is generally from eighty to one hundred miles. The towns situate on that river communicate with the maritime towns, by different roads. Those in the southwestern quarter of the State generally carry their produce to Boston. Roads have been opened from Dartmouth College, and the lower Cohos, to Portsmouth; and the establishment of a communication, by water carriage, across Winipiscogee lake, has been contemplated.

The towns above the lower Cohos, have as yet no convenient roads, directly to the fea coast. The

immense mountains between the rivers Saco and Connecticut, are, in most places, inaccessible; and where a communication is opened, transportation is necessarily very difficult. The people on the upper branches of Saco river, find their nearest market at Portland, in Casco bay; and thither the inhabitants of the towns of the upper Cohos have resorted. But from a survey made in 1782, by Dummer Sewall, Esq. it was found, that a road from Northumberland, on Connecticut river, to the head of navigation in Kennebec river, is very practicable. The distance is between eighty and ninety miles; and for a third part of that distance from Kennebec,

there are already roads and fettlements.

The line which divides the northern part of New-Hampshire, from the eastern counties of Maslachufetts, York and Cumberland, is an abfurd and unnatural boundary. The establishment of it originated in a narrow, felfish policy; but as the true interest of the country is now better understood, and more liberal fentiments prevail, it appears to many attentive observers, that the whole extent of territory, between the upper part of Connecticut river on the west, and the Atlantic ocean as far as Kennebec on the east, and as far northward as the limits of the United States, is formed by nature, to have a connexion and dependence, which may be rendered mutually beneficial to the maritime and inland parts. How far the benefit may be promoted, by an union of jurisdiction, deferves to be confidered.

CHAP. VII.

Monuments and relicts of the Indians.

N describing any country, it is natural to make fome inquiry concerning the veftiges of its ancient inhabitants. It is well known that the original natives of this part of America, were not ambitious of perpetuating their fame by durable monuments. Their invention was chiefly employed either in providing for their fubfistence, by hunting, fithing and planting, or in guarding against and furprifing their enemies. Their houses and canoes were constructed of light and perishable materials. Their mode of travelling was to take all possible advantage of water carriage, and to shorten distances, by transporting their birchen canoes across the necks of land which were convenient for the purpose. Their manner of taking fish was either by entangling them in wears, or dipping for them in fcoopnets, or striking them with spears. They took quadrupeds in traps or pit-falls, or shot them, as well as birds, with arrows. For the construction of their canoes and houses they used hatchets, chiffels, and gouges of stone. To cook their meat, they either broiled it on coals, or on a wooden grate, or roafted it on a forked flick, or boiled it in kettles of stone. Their corn was pounded in mortars of wood, with peftles of stone. Their bread was either baked on flat stones set before a fire, or in green leaves laid under hot ashes. Clam-shells served them for spoons, and their fingers for knives and forks. They had no sharper instruments than could be formed of stones; shells and bones. Of these the two last are perishable by age; but of the first, relics are frequently found in the places of their former refidence, generally in the neighbourhood of water falls, and other convenient fithing places. The manner of finding them is by plowing or digging. The most of those which have been discovered, have come to light by accident, and a few only

are so perfect as to merit preservation.

The hatchet is a hard stone, eight or ten inches in length and three or sour in breadth, of an oval form, flatted and rubbed to an edge at one end; near the other end is a groove in which the handle was fastened; and their process to do it was this: When the stone was prepared, they chose a very young sapling, and, splitting it near the ground, they forced the hatchet into it, as far as the groove, and left nature to complete the work by the growth of the wood, so as to fill the groove and adhere firmly to the stone. They then cut off the sapling above and below, and the hatchet was sit for use.

The chiffel is about fix inches long and two inches wide, flatted and rubbed tharp at one end. It was used only by the hand, for it would not bear to be driven. The gouge differs from the chiffel only in being hollow at the edge. With these instruments they felled trees, cut them into proper lengths, scooped them out hollow for canoes, trays, or mortars, and fashioned them to any shape which they pleased. To save labor, they made use of fire, to soften those parts of the wood which were to be cut with these impersect tools; and by a proper application of wet earth or clay, they could circumscribe the operation of the fire at their pleasure.*

^{*} I have seen a native (says Roger Williams) go into the woods with his hatchet, carrying only a basket of come and stones to strike fire. When he hath felled his tree (either a clessnut or pune) he maketh lima little but or shed of the bark of it. He sputs fire, and follows the barning of it in the midst in many places. His come he boils, and hath the brooke by him, and sometimes angles for a little fish. So he couttoned humning and hewing, until he hath, in ten or twelve days, finished, and getting frands, launched his boat.

Their peftles are long, cylindrical or conical stones, of the heaviest kind; some of which have figures,

rudely wrought, at the end of the handle.

Their kettle is nothing more than a hole, either natural or artificial, in a large stone; but their mode of boiling in it would not readily occur to a person who had seen a kettle used no other way than with a fire under it. Their fire was made by the side of the kettle, and a number of small stones were heated. The kettle being silled with water, and the food placed in it, the hot stones were put in, one after another, and by a dextrous repetition of this process, the meat or fish was boiled.

Of arrow-heads, there is found a greater number than of any other instrument; and they are of all fizes from one to five inches in length; pointed and jagged, with a notch on each side, at the lower end, to bind them to the shaft, the end of which was split to let in the head. Children were early taught the use of the bow, and many of the arrow-heads which are found seem to have been sit only

for their use.

Another implement of stone is found, the use of which is to us undetermined. It is shaped like a pear, with a neck, and was probably suspended by a string. Some suppose it was hung to a net, and that many of them placed at the lower edge served

the purpose of weights to fink it.

Some specimens of sculpture have been found, but they are not common. In the museum of the Academy of Arts and Sciences, there is an imitation of the head of a serpent, at the end of a long stone pestle, found at Wells, in the county of York. There is, in the possession of a gentleman in New-Hampshire, a piece of bone, on which is engraven the bust of a man, apparently in the agonies of death. The countenance is savage, and the work is well execut-

I

ed. This bone with the figure on it, was found at the shore of the little bay, in the river Pascataqua.

In the places of their habitations are fometimes found circular hearths of flat stones, which were laid in the middle of their wigwams. Their mode of lodging was with their feet to the fire. This custom is adopted by people who lie abroad in the woods, and by others at home. It is accounted both

a preventative and a remedy for a cold.

The cellars in which they preferved their corn, are fometimes discovered in the new settlements, and their graves are frequently feen. Most of the skeletons appear to be in a fitting posture, and some remains of the instruments which were supposed necessary to their sublistence, ornament or defence in the "country of fouls," are found with them; particularly the stone pipe for smoking tobacco, of which there are feveral varieties. In a piece of intervale land near the Offapy pond, is a tumulus or mound of earth, overgrown with pine, in which, at the depth of two feet, feveral skeletons have been discovered, buried with the face downward.* Exeter, about two years ago, the remains of an infant skeleton were dug up. It was in a perpendicular position, and had been inclosed with a hollow log. Some strings of wampum were found near it, and feveral spoons, apparently of European manufacture.

The remains of their fields are still visible in many places; these were not extensive, and the hills which they made about their corn stalks were small. Some pieces of baked earthen ware have been found at Sanborn-town and Goff's-town, from which it is supposed that the Indians had learned the potter's art; but of what antiquity these remnants are, and whether manufactured by them or not, is uncertain.

MS. letter of Wentworth Cheswell, Esq.

The paths which ferved them for carrying places between rivers, or different parts of the fame river, are frequently discovered, in the cutting of roads, or laying out of new townships. Probably some hints might be taken from this circumstance, to expedite and facilitate our inland navigation.

In their capital fishing places, particularly in great Ossapy and Winipiseogee rivers, are the remains of their wears, constructed with very large stones. At Sanborntown there is the appearance of a fortress confisting of five distinct walls, one within the other, and at Hinsdale there is something of the same kind; but these are vastly inferior, both in design and execution to the military works found in the country of the Senekas and in the neighbourhood of the Ohio.

I have heard of two specimens of an Indian Gazette, found in New-Hampshire. One was a pine tree, on the shore of Winipiseogee river, on which was depicted a canoe, with two men in it. This is supposed to have been a mark of direction to those who might come after.* The other was a tree in Moultonborough, standing by a carrying place, between two ponds. On this tree was carved the history of one of their expeditions. The number of the killed and prisoners, was represented by so many human sigures; the former were marked with the stroke of a knife, across their throats, and even the distinction between the males and females, was preferved.

Some of their modes and customs have been learned by our own people, and are still retained. In the river Pascataqua, lobsters and flat sish are struck with a spear; and the best time for this kind of sishing is the night. A lighted pitch-knot is placed on the outside of a canoe, which not only attracts the sish, but gives the sishermen direction

Woodman's MS, letter,

where to strike. The river is sometimes illuminated by a multitude of these floating lights. The Indian scoop-net is shaped like a pocket; the edge of which is fastened to a wooden bow, at the end of a long pole. With these are caught salmon, shad, alewives, smelts and lampreys. Frost-sish are taken with wooden tongs, and black eels in cylindrical baskets, with a hole, resembling mouse traps made of wire.

The culbeag or log-trap, is used for taking wolves, bears and martins. Its fize varies, according to the bulk or strength of the animal. It is a forceps, composed of two long sticks, one lying on the other, connected at one end, and open at the other. Near the open end is made a semicircular, covered enclosure, with short stakes, driven into the ground on one side of the logs, which are sirmly secured by another stake, on the opposite side. In this enclosure is placed the bait, sastened to a round stick, which lies across the lower log, the upper log resting on the end of a perpendicular pointed stick, the other end of which is set on the round stick. The animal having scented the bait, finds no way to

come at it, but by putting his head between the logs. As foon as he touches the bait, the round flick, on which it is fastened, rolls; the perpendicular gives way; the upper log falls, and crushes him

to death in an inftant, without injuring his fkin.

To take martins, the hunters make a great number of these traps, at the distance of about a quarter or half a mile from each other; they scent the whole space between the traps, by drawing a piece of raw slesh on the ground; this scent guides the animal to the trap, which is baited with the same. The hunters visit the traps once in a day, and retire to their camp with the prey. There are two seasons for this species of hunting, namely, in December

and March.

Beavers are taken in iron fpring traps. The Indians have learned to use these traps, in preference to their own.

The use of snow-shoes was learned at first from them. The shape and construction of them are well known. The stick which projects behind acts as a spring, and sets the man forward at every step; by which means, one who is used to this mode of travelling, can walk on the snow, more expeditiously

than on the ground.

We are indebted to them, for the method of preferving the fleth of animals in fnow. This is very useful to people who raise or buy large quantities of poultry for the market. They fill the hollow parts, and pack them in a cask with snow; which, whilst it remains undissolved, preserves the flesh in its original sweetness. The Indians had another way of preserving slesh, by cutting it from the bone, and drying it in smoke; but this is now seldom used, unless the meat has been previously cured with salt, the use of which, was unknown to the savages.

Their mode of catching ducks, is still used in those places where this species of game abounds. In the month of August, the old ducks shed their feathers, and the young, being unsledged, are not able to fly. During this period they swim on the water, and may be driven into small creeks, whence they cannot escape. They are then easily caught in great numbers, and preserved for winter by salt

or imoke.

We have also learned from the natives, to dress leather with the brains and fat of the animal, which render it extremely soft and pliable*. They have

^{*} A lather is made of the brains and the soft fat or marrow in which the skin is soaked; it is then dried in smoke; afterward washed and soaked in warm water, till the grain is open then wrung out, dried by a slow fire, rubbed and stretched as long as any moisture remains in it. It is then scraped with a circular knife, and becomes very soft and delicate.

Hearne:

an art of dying hair in various colors, which are bright and permanent. I know not whether they

have communicated this knowledge.

Some of their modes of cookery have been adopted, and are retained. Their roafted and boiled ears of green corn, their famp and bomony, which confift of corn bruifed and foaked or boiled, their nokebike, which is corn parched and pounded, their fuckatash, which is a mixture of corn and beans boiled, are much used, and very palatable. One of the most delicate of their dishes was the upaquontop, or the head of a bas's boiled, and the broth thickened with homony. The lip of a moofe, and the tail of a beaver, prepared in this manner, were among their greatest luxuries. They prepared a very agreeable liquor by infusing the meal of parched corn in warm water and sweetening it with the sugar of maple.

Their cultivation was extremely imperfect. The only objects of it were corn, beans, pumpkins and fquashes, which were planted by their women, with the aid of no instruments but stones and clam-shells; and no manure but fish. Yet, their judgment of the proper feafon for planting, cannot be amended. It was when the leaves of the white oak are as big as the ear of a mouse. Their method of girdling trees to kill them, that the land might be opened for planting, is used by some people in their first essays of husbandry. It is not only a lazy sashion and quite inexcuseable where axes may be had, but the ground needs clearing as often as the trees or branches are broken off by the wind.

The virtues of many herbs, roots and barks, with which the country abounds, were well known to the natives, and fome traditionary knowledge of this kind has been preferved, though much is loft for want of a more certain mode of preservation

than human memory. Some of their medicinal operations are still practifed; but most of them are disused, being superfeded by professional improvements. They raised a blister by burning punk or touchwood on the skin. They applied roots, boiled soft, in the form of a poultice to the throat or other parts, when swelled or inslamed. They relieved a person chilled with cold, by pouring warm water down the throat. They attempted the cure of severs by sweating in a covered hut, with the steam of water poured on hot stones, and then plunging into cold water. For pains in the limbs they had another mode of sweating. A number of sods were heated, and the patient, wrapped in a mat, was laid on some and covered with others, till the heat of the turf was supposed to have extracted the pain. The offices of physician and priest were united in the same person, and a variety of mysterious rites accompanied his operations.

They had a knowledge of poisons and antidotes, and could so prepare themselves, that the most venomous ferpents would avoid them, or prove harmless in their hands. This knowledge has seldom been communicated, and is always treated as myste-

rious.

I wish it could not be said, that some of their superstitious notions have been transferred and propagated. The idea that lonely mountains and rocks are inhabited by departed spirits, and other invisible and imaginary beings, is not yet worn out. Certain charms and spells, which are supposed to be effectual preservatives, or cures in cases of witchcraft, are still in use among the vulgar; though perhaps some of these traditions may owe their origin to the superstition of our European ancestors, descended from the remoter savages of Britain, Ireland and Germany. These notions, however pitied

by fome, and ridiculed by others, are still deeply engraven on the minds of many, and are maintained with an inflexibility which would do them honor if the cause were worthy of defence. So strong are these impressions, that the same persons, whose intrepidity in scenes of real danger is unquestionable, often render themselves miserable by the apprehension of evils, which exist only in their imagination.

CHAP. VIII.

Forest-trees, and other vegetable productions.

EW perfons in this country, have fludied natural history as a science, and of those who have a taste for inquiries of this kind, none have had leifure to perfue them, to the extent which is desireable. In the description of an American State, it would be unpardonable not to take notice of its natural productions. With much diffidence I enter on this part of my work, sensible that my knowledge of the subject is imperfect, yet, desirous of contributing something, to promote a branch of science, now in its infancy; but for which there is an ample field of inquiry.*

Elm (ulmus americana.) Of this tree there is but one species, of which there are two varieties, the white and the red. The inner rind of both is stringy and tough, and is frequently used for the bottoms of chairs, and for bed-cords. The wood is not easily split and therefore serves for the naves of wheels. The bark of the white elm is used medicinally for the gravel. The European elm (ulmus campestris) is so far naturalized as to propagate itself in copses.

Saffafras (laurus saffafras) is commonly found in moist land. It does not, in this State, grow to a large size. Its root, bark and leaves have an aromatic smell. It affords a valuable ingredient for beer as well as for medicinal purposes. The wood makes handsome bedsteads, and it is faid that bugs

For the arrangement of the several articles in the botanical and zoological chapters, for their generic and specific names, and for some of the observations on their nature and properties, I am indebted to the friendly assistance of the Rev. Dr. Manasseh Cutler, of specific, and Mr. William Dandridge Peck, of Kittery.

will not be found in them for feveral years. The Spice-wool (laurus benzoin) or as it is commonly called Fever-buth, is another species of the laurus, common in New-Hampshire. It is more aromatic than the saffiras. In the western country, its fruit

and bark are used as a substitute for pimento.

Wild Cherry. Of this we have many species; but they have not been well arranged, and properly distinguished. They are very numerous in land which has been newly cleared, if not kept down by culture. The wood of the largest cherry-tree (prunus virginiana) is very highly esteemed in cabinet work, being of a firm texture, a smooth grain, and a beautiful colour, between red and yellow.

Basswood or Lime-tree (tilia americana) is sometimes sawed into boards, which are very white, but

foft, and eafily warped.

Locust (robinia pfeudo-acacia) is excellent fuel. Its trunk serves for durable posts set in the ground, and may be split into trunnels for ships, which are equal to any wood for that purpose. It thrives on fandy and gravelly soils, and its leaves enrich them. For these reasons, the cultivation of the locust has been thought an object worthy of attention, especially as it is a tree of quick growth. For several years past it has been injured by a beetle insect, which bores a hole through its trunk. Many trees have been entirely killed, and this circumstance has proved a discouragement to their propagation.

Birch. Of this we have four species. 1. White (betula alba.) The bark of this tree is a substance of a singular kind, and is perhaps the only bark which is less liable to rot than the wood which it encloses. The whole interior substance of a fallen tree, is frequently found rotten, whilst the bark remains sound. This bark is composed of several laminæ, easily separable, of a firm consistence, thin, slexible, soft and

is very inflammable, emitting a vivid flame and a very dense, black smoke, which might easily be collected like lampblack. Of this bark the Indians formed dishes, boxes, and light portable canoes, which they sewed together with slender but tough silaments of the roots of spruce and cedar, cementing the joints with turpentine. 2. Black (betula nigra.) The heart of this tree is of a beautiful brown, and is frequently split and turned. It makes handsome bedsteads, chairs and tables. Much of it is exported to Europe. 3. Red or Yellow (betula lenta.) This is chiefly used for sewel, and is much esteemed. 4. Alder (betula alnus.) Its bark is much employed in dying a dark brown. The wood, when of a proper size, makes excellent charcoal. It is common in swamps and by the side of rivers and brooks.

Oak. Of this we have four species in New-Hampshire. 1. Black, (quercus nigra.) The inner bark is used for tanning. The timber for the keels of ships. 2. Red, (quercus rubra.) Of this species there are three varieties. (1.) The red, which grows sometimes on high and dry land, but delights in a moist soil, and is generally sound on the declivities of hills and borders of swamps. The wood of this tree is easily riven, and makes excellent staves for molasses and for dry casks. (2.) The swamp oak, which is found in low wet places. It is possessed of greater elasticity than any other oak. Splints of this wood have been substituted for whalebone. (3.) Yellow, which grows on hills and dry ridges of land, makes the best of pipe staves and ship-timber.*
3. White. (quercus alba.) 4. Shrub oak. (quercus pumila.) It is found on barren hills and plains. It

^{*} This arrangement of the oaks is suggested by Dr. Cutler. In common parlance, the oak, which is used for pipe-staves and ship timber, is called the upland waite oak; it is one of the most useful and valuable trees of the American forest.

produces a gall, which is evidently the nidus of an infect, and has been used an ingredient in writing ink. There is another oak, called the chesnut or new-found oak; but whether it be of a different species, or a variety of either species above-mention-

ed, has not been determined.

Walnut. The American fpecies of this genus, have been confounded by botanical writers. There are at least three in New-Hampshire. 1. White or round nut Hickory. (juglans alba.) Its fap is fweet, but does not flow freely. Its wood is fmooth and tough, and is much used for gun-stocks, axe-handles and walking-sticks. 2. Shag-bark (juglans cineria?* The wood of this tree is not fo valuable as the white: but the fruit is preferable, being larger, and having a fofter shell. 3. Oil-nut or Butter-nut. This species has been called, by fome authors, juglans alba, and by others, juglans nigra. It differs specifically from both, and therefore Dr. Cutler has given it the diftinguishing name of juglans cathartica, expressive of the peculiar property of its bark, the extract of which is one of the best cathartics in the materia medica. It neither produces gripings, nor leaves the patient coffive, and may be made efficacious, without hazard, by increasing the dose. Its operation is kind and fafe, even in the most delicate constitutions. It is an excellent family medicine, is well adapted to hospitals, navies and armies. It was much used by the military physicians, in the late war; and it may become a valuable article of exportation. It is faid to be one of the best antidotes against the bite of the rattle-fnake. The fruit of this tree, when gathered young, in the beginning of July, makes an excellent pickle. When ripe, it is a fattening food

^{*} I am uncertain whether this be the cineria of authors, and therefore have added the mark of interrogation. If it be not the cineria (to which the characters pretty well agree) it has no specific name.'

Dr. Catter.

for fwine. Its shell is black, hard and rough. Its kernel contains a large quantity of a rich sweet oil.* Its wood makes good fencing stuff; and its bark, besides the medicinal virtues which it possesses, has a quality of dying several shades of grey and black.

Chefinut, (fagus castanea) is chiefly used for fencing; it is straight, coarse grained, easily riven and very durable. It is sometimes split into staves

and heading for dry casks.

Beech, (fasus sylvatica.) Of this there are three varieties. The white and the red are used as fewel. The black is small and tough, and is used only for withes and switches.

Hornbeam (carpinus betulus) is a finall but tough tree, and is used only for levers, hand spikes and stakes.

Button-wood (platanus occidentalis) is a large tree, but as tough as the hornbeam. It is used for wind-

lasses, wheels and blocks.

Pine. (pinus) Of this genus we have at least seven species. 1. The White Pine (pinus strobus) is undoubtedly the prince of the American forest in size, age and majesty of appearance. More of this species have been produced in New-Hampshire, and the eastern counties of Massachusetts than in all America besides. These trees have a very thin sap, and are distinguished by the name of mast-pine from the succeeding growth of the same species, which are called saplings. The blossom of this and other pines appears about the middle of June, its sarina is of a bright yellow, and so subtil that it is exhaled with vapor from the earth, ascends into the clouds

^{*} In the southern and western parts of the United States, this tree is found in very great abundance. The Indians preserved the oil which they extracted from the nut. Of this we have an early testimony in the journal of Ferdinando de Soto, A. D. 1540. When he came to Chiaha, situate near the Apalachian mountains, about the latitude of \$4.0, he 'found great store of oil of walnuts, clear as butter, and of good taste.' (Purchai, vol. 5. page 1589.) The Indians of New-England extracted an oil from acorns, by boiling them in water with ashes of punk, or the retten heart of maple.

Josselyn's Voyage.

and falls with rain, forming a yellow fcum on the furface of the water, which the ignorant erroneoufly call fulphur from the fimilarity of its colour.

When a mast tree is to be felled, much preparation is necessary. So tall a flick without any limbs nearer the ground than eighty or a hundred feet, is in great danger of breaking in the fall. To prevent this, the workmen have a contrivance which they call bedding the tree, which is thus executed. They know in what direction the tree will fall; and they cut down a number of finaller trees which grow in that direction; or if there be none, they draw others to the fpot, and place them fo that the falling tree may lodge on their branches; which breaking or yielding under its pressure, render its fall easy and fafe. A time of deep fnow is the most favorable feafon; as the rocks are then covered, and a natural bed is formed to receive the tree. When fallen, it is examined, and if to appearance it be found, it is cut in the proportion of three feet in length to every inch of its diameter, for a mast; but if intended for a bow-spirit or a yard, it is cut shorter. If it be not found throughout, or if it break in falling, it is cut into logs for the faw mill.

When a mast is to be drawn, as its length will not admit of its passing in a crooked road a straight path is cut and cleared for it through the woods. If it be cut in the neighborhood of a large river, it is drawn to the bank and rolled into the water, or in the winter it is laid on the ice to be floated away at the breaking up of the river in the spring. From other situations masts are now conveyed twenty, thirty or forty miles to the landing places at the head of the tide, and as the distance has increased, more safe and easy modes of conveyance have been invented. Formerly, if drawn on wheels, the mast was raised by levers, and hung by chains under the axle.

In this case it was necessary to use very strong and heavy chains, and wheels of fixteen or eighteen feet in diameter, that the mast, in passing might be cleared from the ground, which was often encumbered with rocks and stumps. Now, the common wheels and chains are used, and the largest stick, by a very eafy operation, is raifed on the axle. To perform this, the wheels being brought near to it, are canted; the axle being fet in a perpendicular polition, one wheel on the ground and the other aloft. The mast is then rolled over the rim and spokes of the lower wheel, and fastened to the axle; and when it is thus fixed, a chain, which is previously made fast to the opposite si le of the upper wheel, is hooked to a yoke of oxen; who, by a jerk, bring down the upper and raife the lower wheel, and thus both are brought into their proper position, with the mast mounted on the axle. They use two pair of wheels, one at each end of the mast; by which means, it is not galled by friction on the ground; and the draught is rendered much easier for the cattle.

When a mast is to be drawn on the snow, one end is placed on a fled, thorter, but higher than the common fort, and rests on a strong block, which is laid across the middle of the sled: Formerly, the butt end was placed foremost, and fastened by chains to the bars of the fled, which was attended by this inconvenience; that in fidelong ground, the flick by its rolling would overfet the fled, and the drivers had much difficulty either to prevent or remedy this difaster, by the help of levers and ropes. The invention of the fwivel chain precludes this difficulty. One part of this chain is fastened to the tongue of the fled, and the other to the smallest end of the mast, by means of a circular groove cut in it; one of the intermediate links is a fwivel, which, by its eafy turning, allows the stick to roll from side to side,

without overturning the fled. In descending a long and steep hill, they have a contrivance to prevent the load from making too rapid a descent. Some of the cattle are placed behind it; a chain which is attached to their yokes is brought forward and fastened to the hinder end of the load, and the refistance which is made by these cattle, checks the descent. This operation is called tailing. The most dangerous circumstance, is the passing over the top of a sharp hill, by which means, the oxen which are nearest to the tongues are fometimes suspended, till the foremost cattle can draw the mast so far over the hill, as to give them opportunity to recover the ground. In this case the drivers are obliged to use much judgment and care, to keep the cattle from being killed. There is no other way to prevent this inconvenience than to level the roads.

The best white pine trees are fold for masts, bowfprits and yards, for large ships.* Those of an inferior size, partly unsound, crooked, or broken in falling, are either sawn into planks and boards, or

I have obtained from the books of the late contractor, Mark Hunking Wentworth, Esq. deceased, the following account of the size and value of such sticks as he sent to England for the use of the navy.

Masts.		Yards		Bowsprits.	
Diameter	Sterling	Diameter	Sterling	Diameter	Sterling
in inches.	value.	in inches.	value.	in inches.	value.
	Ž.		L	1	Ĩ.
25	18, 8	15		25	2,10
	16,	16		26	3,
27	18,	17	6,10	27	3,14 '
28	23,	18	9	28	8, 2
29	28,	19	11,4	29	15,
30	35,10	20	14, 10	30	21,
31	44,	21	18,10	81	26,
32	56,	22	21,	32	29,
33	70,	23	25,10	33	32,
34	90,	24	32,	34	40,
				35	42.10
				36	45,
				37	52,10

N. B. It must be observed, that all these were hewn into the proper shape before the final dimensions were taken, which determined their value.

^{*} Douglas [vol. II. page 53.] speaks of a white pine cut near Dunstable, in 1736, which was 'straight and sound, seven feet eight inches in diameter, at the butt end.' He also says, that when 'Col. Partridge' (formerly Lieutenant Governor of New-Hampshire) 'had the mast contract, he sent home a few of 38 inches, and two of 42 inches.'

formed into canoes, or cut into bolts for the use of coopers, or split and shaved into clapboards and shingles. Boards of this wood are much used so wainscoting and cabinet work; it is of smooth grain, and when free from knots, does no injury to the tools of the workmen; but the softness of its texture subjects it to thrink and swell with the weather. The sapling pine, though of the same species, is not so firm and smooth as the veteran pine of the forest, and is more sensibly affected by the weather.

The stumps and roots of the mast pine are very durable. It is a common saying, that 'no man ever 'cut down a pine, and lived to see the stump rotten.' After many years, when the roots have been loosened by the frost, they are, with much labor, cut and dug out of the ground, and being turned up edge way, are set for sences to fields; in which state they have been known to remain sound for half a century. A collection of these roots would make an impenetrable abbatis, which nothing but fire could easily destroy.

Before the revolution, all white pines (excepting those growing in any township granted before the twenty-first of September, 1722) were accounted the King's property, and heavy penalties were annexed to the cutting of them, without leave from the King's surveyor. Since that event, these trees, like all others, are the property of the landholder.

(2.) The Yellow pine (pinus pinea) is harder and heavier than the white, but never grows to the same fize; its planks and boards are used for the floors

of houses and the decks of ships.

(3.) The Pitch pine (pinus tada) is the hardest and heaviest of all the pines; it is sometimes put to the same uses as the yellow pine; but at present the principal use of it is for sewel. When burnt in kilns, it makes the best kind of charcoal; its knots

and roots being full of the terebinthine oil, afford a light furpassing candles; its foot is collected, and used for lamp black. The making of tar from it is now wholly difused. Formerly, when it was made, the method was this. A piece of clay ground was chofen; or if it could not conveniently be had, the earth was paved with stone or brick, in a circular form, about twelve or fifteen feet in diameter, raifed in the middle, and a circular trench was drawn round it, a few inches in depth. The wood being cut and fplit, was fet upright in a conical pile, and covered on every fide with fods, a hole being left open at the top, where the pile was fet on fire. The confined heat melted the refinous juices of the wood, which flowed out at the bottom into the circular trench, and was conducted by other gutters, to holes in the earth, in which were fet barrels to receive it. Turpentine is collected from every species of the pine, by boxing the trees; that from the white pine is the purest; it sometimes distils from the tree in beautifully transparent drops.

4. The Larch (pinus larix) is the only tree of the terebinthine quality which sheds its leaves in autumn. Its turpentine is said to be the same with the

Burgundy pitch.

(5.) The Fir (pinus balfamea) yields a fine balfam, which is contained in small blisters on the exterior furface of its bark. This balfam is used both as an external and internal medicine. The wood is coarser, and more brittle, than the pine, and is seldom either hewn or sawn.

(6.) Of Spruce (pinus canadensis) we have two varieties, the white and the black. The white spruce is tall and slender, its grain is twisting, and when stripped of its bark, it will crack in a warm fun. It is the worst wood for fewel, because of its continual snapping; in this respect it exceeds hem-

lock and chefnut; both of which are remarkable for the fame ill quality. It is fometimes formed into oars for large boats, but is inferior to ash. It is often used for spars, for sencing stuff and for scaffolding, for all which purposes, its form and texture render it very convenient, as it is straight and tough, and may be had of any size from two inches to two feet in diameter. The black spruce is used only for beer. The young twigs of it are boiled till the bark may easily be stripped from the wood, and being sweetened with molasses, make one of the most pleasant and wholesome beverages which nature affords. Of this spruce is made the essence, which is as well known in Europe as in America.

(7.) The Hemlock (pinus abies) is, in stature, the next tree to the mast pine. It grows largest in swampy land, and is very straight. Its grain is coarse, and is not easily split or hewn, but is sawed into planks, joists, and laths. Its chief excellence in building is, that it holds a nail exceedingly well. It makes good flooring for bridges and barns, and the round timber is very durable in wharfs and dams. The bark is excellent for tanning leather. The balsam of the hemlock is used medicinally, but

it cannot be collected in any great quantities.

White cedar (thuja occidentalis.)
Red cedar (juniperus virginiana.)

'The white cedar of the fouthern States (cupreffus 'thyoides) is a very different tree from the white cedar of the northern States; but the red cedar is the fame in all the States. It is a juniper, and a 'fpecies of that in Europe which produces the juniper berries. The wood of the red cedar, is more 'durable, when fet in the earth, than any other 'wood growing in this country.'

'We have another species of juniper (juniperus sa-'bina) which does not rise more than eighteen inches 'from the ground; but the branches extend hori'zontally feveral yards; and form, in open pastures, 'an extensive bed of evergreen. The leaves are 'mixed with oats, and given to horses to destroy 'the worms, which insess their bowels.'

White willow (falix alba) is originally an exotic, but now well naturalized and much propagated. The bark of this tree is used as a substitute for the

' cortex peruviana.'

Swamp willow (falix) is the first tree that shows its blossoms in the spring. In some seasons, its white slowers exhibit a delightful appearance, when all the neighbouring trees remain in their wintry hue.

Poplar or Afpen (populus tremula.) This tree is more frequently found in open or clear land, than in thick woods. It is of quick growth. The wood is white, foft and fmooth. It is used for lasts and heels of shoes, and for some kinds of turned work.

Black poplar or Balfam tree. This is a beautiful forest tree, of a large size, and quick growth; very proper for walks and shades. Its buds, in the spring, are full of a rich balfam, resembling the balfam of Peru. As the buds expand the balfam disappears.

Of the Maple we have three species. 1. The white (acer negundo) especially that which is curled in its grain, is much used in cabinet work; it is sure and smooth; it takes a fine polish, and may be stained of the colour of black walnut or mahogany. 2. The red (acer rubrum) grows in swamps, and is sit only for suel. 3. The black or rock maple, exceeds the others in this respect, being of a very close texture, hard and heavy, even when perfectly dry. But the grand excellency of this tree, is the saccharine quality of its sap, which has obtained for it the name of Sugar maple, (acer saccharinum.)

Those trees which grow in cleared land, do not yield sap in such quantities as those which grow in the thick woods; but it is richer. The same dis-

ference is observed between those which grow in

wet and in dry land.

To procure the fap, an incision is made by two scores, an inch and half, or two inches deep, and from fix to eight inches long, in the form of the letter V. This method of tapping causes the tree to bleed very freely, and in two or three years, kills it; a circumstance not much regarded where the trees are numerous, and a continual fuccession of them, may be had; but if care be taken to tap them, by making a fmall circular incision, and filling it with a plug when the feafon is past, the bark will cover the wound, and the tree will last many years. From the lower part of the incision, the sap is guided by a finall flick into a trough, containing two or three gallons. These troughs are made by cutting the the pine, or fome other foft wood, into pieces of a yard long, and fplitting them in halves, a cavity is then made in each half, by a narrow axe, and fo expert are the woodmen at this business, that one of them will make thirty or forty in a day. Larger troughs or vats, are placed in a central fituation, to ferve as refervoirs for the fap when collected.

The feafon for tapping the trees is in March, and the fap will not run but in a clear day, fucceeding a frofty night. A full grown tree will then yield from two to three gallons each day. The perfons employed in the bufinefs, vifit each tree, and, collecting the fap in buckets, remove it to the larger troughs, or, if the ground be very extensive, it is put into barrels, which are drawn on fleds to the place appointed for boiling. The kettles in which it is boiled, are commonly the fame which are used for culinary purposes, suspended in the usual manner, but the best way is to use broad kettles, set in brick or stone, with the fire confined under the bottom, and not flaming up round the sides, in which

cafe there is danger of burning the fugar. As the fap evaporates the kettles are filled up, the boiling is continued, and the liquor is skimmed till it becomes a thick syrup. In this state it may rest for a week, and in the mean time, more of the sap may undergo the same process, and be reduced to a less

quantity.

The next operation is granulating, which may be done on a cloudy day, when no fap can be collected. But if there be a fuccession of fair weather, the trees will discharge so fast, that the collection must be attended to by day, and the boiling by night. When the syrup is to be granulated, the boiling is repeated. The kettle is then not more than half filled, to prevent waste. To check the too sudden rising of the liquor, a small piece of clean butter or tallow is occasionally thrown in. To know when it will granulate, a little of it is taken out and cooled, and when it appears to be in this state, the whole is poured into a cooler. After the grain is formed, it is hung in bags to drain. A small quantity of quick lime, put into the liquor, as is usual in the West-Indies, would promote and improve the granulation.

In every stage of the work much neatness is required. The sap must be strained through a slannel sieve before the first boiling, to clear it of chips, leaves and other adventitious substances; and before the second boiling, it must undergo another straining. When the season is over, the troughs are either piled in a dry place, bottom upward, or set on end against the trees, to be kept clean for another season. The sugar, thus procured, is, by some of the neatest workmen, rendered as white as the sinest muscovado. It is an agreeable sweet, frequently supplying the place of milk and meat, and affording wholesome and nourishing food for children.

The drainings of the fugar, or the last run of the fap, which will not granulate, are used as molasses, to sweeten cakes, puddings and other viands. A very palatable and refreshing beer is made by boiling down the sap to a quarter part, and fermenting it with yeast, and another extremely wholesome liquor, is obtained from the decoction of spruce in the sap. Vinegar also is made by exposing the sap to the air.

The fugar, thus extracted from the maple, is clear gain to the industrious husbandman. It is made at a time of the year when no field labor can be done. The ground is then covered with fnow, which being hardened by the frost, will bear a man's weight. One man and a boy have collected a fufficiency of fap for five hundred pounds of fugar, and a man, with two boys, for feven hundred. The boiling is often performed by women. These trees are found in many parts of the country; but they abound most in the lands between the White mountains and Connecticut river. The wood is very fuitable for the use of carpenters, who make of it felloes of wheels, where oak cannot eafily be procured, as is the case in a great extent of country in the northwestern part of the state.

Of Ash we have two species. 1. The White Ash (fraxinus excelsior) in good land, grows to the fize of three feet in diameter. It is very tall, straight and tough. Its leaves and bark are an antidote to the venom of the rattle-snake. The wood is easily riven, and makes durable rails for sences. It is also formed into oars and handspikes, and serves for the frames of ploughs, carts, sleighs, and riding carriages, and for the handles of many useful tools in agricultural and mechanical employments. 2. The other species is Black Ash (fraxinus americana) of which the Red and Yellow are varieties. Splints of

the wood of Ash are obtained by pounding it with a maul, and are employed in making baskets and brooms. This knowledge was probably derived from the Indians. The roots of yellow Ath, are used by turners, for the making of plates and bowls.

After going through the catalogue of forest trees, it may be proper to observe, that all woods, which grow on high land, are more sirm and solid, and better for timber or sewel, than those which grow in swamps. The same difference may generally be observed between those in the open grounds, and those in the thick shade of the forest. The pine is an exception to this remark; but whether the immense age or superior stature of the forest pine be the causes which render it more sirm than that which is found in the pastures, cannot at present be ascertained.

From feveral experiments made by the Count de Buffon, it appears that the wood of trees, stripped of their bark in the spring, and left to dry standing till they are dead, is harder, heavier and stronger, more folid and durable than that of trees felled in their bark; and that the fappy part of wood, without bark, is not only ftronger than the common, but much more fo than the heart of wood in bark, though less heavy. The physical cause of this augmentation of strength and folidity he thus explains. 'Trees increase in fize by additional coats of new 'wood, which is formed from the running fap be-' tween the bark and the old wood. Trees stripped of their bark, form none of these new coats, and ' though they live after the bark is taken off they do not grow. The fubflance deftined to form the new wood, finding itself stopped and obliged to ' fix in the void places both of the fap and heart, 'augments the folidity and confequently the strength of the wood.'*

^{*} Nat. Hist. Vol. v. p. 267. It must be observed that his experiment were made on oaks.

Befide the immense quantity of living wood with which the forest abounds, nature hath provided an ample store of that fossil, ligneous substance called peat. It appears to be formed of the deciduous parts of trees and shrubs, preserved in a peculiar manner, in the earth. It is usually found in swamps between or under hills, where it has been accumulating for many ages. The decayed vegetation of one peri-od having ferved as a foil in which another growth has taken root and come to maturity. In the town of Dover are two fwamps, which, within the last twenty-five years, have been cleared of the stumps and roots of the latest growth, which were pine and hemlock. In digging them up, another tier of stumps was found under them, the roots of which were found; and in some instances a third ftump appeared under the fecond. In fuch fwamps is found the peat; in which the shape of twigs, bark and leaves is very apparent; but on pressure it is confolidated into a foft fatty fubstance. This being dug in spits of a proper size, and dried, becomes valuable fewel; of which, though at present little use is made, yet posterity will doubtless reap the henefit.*

[&]quot;I very much doubt your doctrine of peat. It appears to me to be a substance wi generis. Deciduous parts of trees and shrubs are often found mixed with it. But its inflammable property, I conceive, does not depend on the mere adventitious collections of decayed vegetables; for although peat is found in places favourable to such collections, yet it is not found in every place where those collections have been made. Besides, in all the peat I have examined, there are numerous fibres of a singular construction, variously ramified; in some kinds they are extremely fine, in others as large as a pack thread. When the peat is first taken from the pit, the threads may be traced a considerable length, and, when washed, they have an appearance which has induced me to suspect a vegetable organization. If they are a living vegetable, they seem to form the link between the vegetable and fossil king lom. It seems most probable, if those fibres are not vegetable wi generis, they may be the fibrous roots of a bod of some particular species of moss, upon which there has been a large collection of matter, which has buried them a certain depth under ground, where they are not subject to putter faction. But there seems to be an inflammable fossil in the composition of peat, different from the earth commonly found in similar places. I am told some peat appears to be entirely a fossil, though I have never seen any such. It is as easy to conceive of such a fossil as of pit-coal. If the fossil contains the inflammable principle, it is not derived from deciduous vegetables. Have you never heard of its growing again where it has been dug out? One of my neighbours has often told me that a ditch was dug through a meadow in his farm, many years ago, where there is a body of peat; that the depth of

It is not my intention to write, fystematically, the natural history of the country, or to describe, with botanical accuracy, the indigenous vegetables which it contains; but briefly to take notice of such as are endowed with the most remarkable qualities,

Of Grapes we have two species. The black grape (vitis labrusca) and the fox-grape (vitis vulpina.) Of these there are several varieties. From the specimens of foreign grapes, which ripen in our gardens, there is sufficient reason to believe that the culture of vines, in savorable situations, might be attended with success. This opinion is corroborated by the judgment of foreigners, occasionally resident with us.

The black Currant (ribes nigrum) is a native of our fwamps, and is much improved by culture. It is not much used as food, but is an excellent medi-

cine for a fore mouth and throat.

The wild Goofeberry (ribes grofularia) is very common in the borders of woods, and has been greatly

meliorated by cultivation.

either falutary or noxious.

We have feveral species of Whortleberries (vaccinium corymbosium) which grow in great abundance and serve as wholesome and palatable food; some of them are dried for winter.

The Craneberry (vaccinium oxycoccos) is a fruit peculiar to America. The common species grows on a creeping vine in meadows. The branches of the vine take root at the joints, and overspread the ground to the extent of an acre. The berries hang on very slender stalks. At first they are white, but turn red as they ripen, and when full grown, are of

the ditch exceeded the depth of the peat; and that the peat has pushed out on both sides so as nearly to meet in the center, but the sides of the ditch above and below, re-

⁶ main much the same, except some li-tic change, which the length of time has produced.
⁶ I have not seen the place; but were 1 assured of this fact, 1 should be inclined to be-

^{&#}x27;s lieve the fibres to be living vegetables, and the fossil to be possessed of the property of spar, with regard to the increase of its bulk; and that these two substances were much thally dependent on each other.'

4. **MS.** letter of Dr. Cutter.**

the fize of a cherry. They yield an agreeable acid juice, and, when stewed and made into a jelly, are extremely cooling in a fever, and a delicious sauce at the table. They may be kept a long time in water, and suffer no injury from the frost. They are frequently sent abroad, and are highly refreshing at sea. The best way to preserve them for long voyages, is to put them up, clean and dry, in bottles, closely corked. There is another species of craneberry, which grows in clusters on a bush, but it is not so large nor so common as the other.

The common Raspberry (rubus idæus) is found in the most exuberant plenty in the new plantations, and in the old, by the sides of sields and roads. The superb raspberry (rubus canadensis) is larger and more delicate. Its blossom is purple, and its leaves

are sometimes a foot in diameter.

The Brambleberry (rubus occidentalis.) The running Blackberry (rubus moluccanus.) The upright Blackberry (rubus frutiofus) are also very common, especially in the newly cleared land, and afford an agreeable refreshment.

The Strawberry (fragaria vefca) in fome parts of the country, is very luxuriant in new fields and pastures; but it is capable of great improvement by

cultivation.

The Hazle-nut (corylus evellana) is found in the neglected parts of passures, and by the sides of rivers.

There are two species of Ground-nuts. One (belian thus tuberosus) bears a yellow blossom, resembling the funflower. The other (glicine apios) is a vine, which twines itself about bushes, and bears a blossom and fruit resembling a pea. The roots were much used for food by the Indians, and are indeed very palatable. I know not whether they have been cultivated; but the former might be planted like the potatoe.

Besides these, there are several kinds of plums, and other wild fruits, which have not been reduced to a fystematical order, nor distinguished by any but trivial names.

There is a great variety of native vegetables, which are used for medicinal and domestic purposes. Among these may be reckoned the following:

The Bayberry (myrica cerifera) the leaves of which yield an agreeable perfume, and the fruit a delicate green wax, which is made into candles. Ginseng (panax trifolium) fo much esteemed by the Chinese, is found in great plenty in the western part of the State, and it is said that the farther northward it is found, the better is its quality. It was formerly thought that the ginfeng grew only in China and Tartary; but it was discovered in America about the year 1750, and some specimens of it having been fent to England, and thence to China, it was, on trial, acknowledged, by the Chinese themselves, to be the same with the oriental ginseng.

The proper time for gathering this root, is in

September, just before the frost kills the stem. The way of curing it in China, is thus related. 'After the ginseng is gathered, it is cleaned, then dipped in scalding water, and the ligneous bark rubbed off with a piece of dry flannel. It is then laid 'across sticks, over a vessel, in which yellow millet* 'is boiling, with a gentle fire, and covered with a cloth. The steam of the boiling millet gives it 'that colour which is admired by the Chinefe. When the roots are thus prepared, they must be dried and kept close, otherwise they will corrupt or be destroyed by worms. This root once promised to be a valuable article of commerce with China; but the fale of it has been greatly injured by

^{*} Millet is very easily cultivated, and yields a vast increase. I have counted ten shousand grains on one stalk.

the loofe and careless manner in which it has been packed, and the too great quantity which has been at once exported. It might however, by some proper

regulations, be still rendered advantageous.

The prickly ash (its genus unknown) is a shrub, growing in moist places, and sometimes rising into a small tree. It is armed with spiculæ, like the locust. The bark has a high degree of warmth and pungency; with which, in the seed, is combined an agreeable aroma. The former is esteemed an excellent remedy for the chronic rheumatism. The latter were used by the soldiers, in the late war, and by many other people, remote from the trading towns, as a substitute for pepper in seasoning food. It is chiefly found in the western part of the State.

The Garget (phytolacca decandra) is a valuable plant. Its berries yield a beautiful purple juice, which might be used in dying. Its root is in great

repute among farriers.

Of the Elder there are two species, black (fambuccus nigra) and red (viburnum opilus.) The former is too well known to need any description; as are the Maiden-hair (adianthus pedatuus) the Sarsaparilla (aralia) Snake root (polygala senega) and many others.

There are feveral plants, the virtues of which were well known to the Indians, but are now either neglected or unknown. One of these is a running vine, bearing a small red berry, and a round leaf, which Josselyn (who wrote in 1672) says, the sishermen called poke; it is known to the hunters by the name of Indian tobacco, and it was used by the natives, before their acquaintance with the Europeans, for smoaking, and afterwards was frequently mixed with the true tobacco from the southern parts of America. It has a strong parcotic quality. It

^{*} Pole is the name by which the garget is known in the middle State.

grows on the fummit of Agamenticus; and on many other mountains and dry elevated places.

Another is the Indian Hemp (afclepias) of which the Indians made their bow-thrings. The fibres of its bark are fitrong, and may be wrought into a fine thread. The Silk Grafs, another species of the afclepias, bears a pod, containing a down, which may be carded and spun into candle wicks.

The Witch Hazel (bamamelis) was much used by

the Indians, as a remedy for inflammations.

We have at least three species of the lobelia; one of which is a strong emetic; another (lobelia cardinalis) is employed in the cure of a disease, with the name of which I will not stain my page.

The vine, called Buck Bean (menyanthes) is faid to be a rare plant in this country, and of fingular use in medicine. It grows at Jaffrey, near the grand

Monadnock.

The arum, or Skunk Cabbage, has been found ve-

ry efficacious in asthmatic complaints.

It may be proper to close this account of indigenous vegetables, with the names of those plants, which, under certain circumstances, operate as poifons; fome of which, however, have been brought into a medicinal use, and are in repute for the cure of diforders, attended with spasmodic affections. Of this latter fort, are the Hemlock (cicuta) the Thorn Apple (datura stramonium) the Henbane (byofcyamuse niger) and the night shade (folanum nigrum.) Other poisonous plants, are the lvy (bedera belex) the creeping Ivy, or, as it is called by fome, Mercury (rbus radicans) the juice of which stains linen a deep and indelible black; the Swamp Sumach (rhis toxico dendrum) the Walter Elder (viburnum opulis) the herb Christopher (actaa spicata) the Stinking Snakeweed (cliffortia trifoliata) and the White Hellebore (veratrum album.)

CHAP. IX.

Soil, Cultivation and Husbandry.

HERE is a great variety of foil in New-Hampshire. The intervale lands on the large rivers, are accounted the most valuable, because they are overflown and recruited every year by the water from the uplands, which brings down a fat slime or sediment, of the consistence of soap. These lands produce every kind of grain in the utmost perfection; but are not so good for pasture as the uplands of a proper quality. The wide spreading hills of a moderate elevation, are generally much esteemed, as warm and rich; rocky moist land is accounted good for pasture; drained swamps have a deep mellow soil, and the valleys between hills are generally very productive.

In the new and uncultivated parts, the foil is diftinguished by the various kinds of woods which grow upon it, thus: White oak land is hard and flony, the under growth confisting of brakes and fern; this kind of foil will not bear grass till it has been ploughed and hoed; but it is good for Indian corn, and must be subdued by planting, before it can be converted into mowing or pasture. The

fame may be faid of chefnut land.

Pitch pine land is dry and fandy; it will bear corn and rie with ploughing; but is foon worn out, and needs to lie fallow two or three years to recruit.

White pine land is also light and dry, but has a deeper soil, and is of course better; both these kinds of land bear brakes and fern; and wherever these

grow in large quantities, is is an indication that ploughing is necessary to prepare the land for grafs.

Spruce and hemlock, in the eastern parts of the

Spruce and hemlock, in the eaftern parts of the State, denote a thin, cold foil, which, after much labor in the clearing, will indeed bear grafs without ploughing, but the crops are fmall, and there is a natural tough fward commonly called a rug, which must either rot or be burned before any cultivation can be made. But in the western parts, the spruce and hemlock, with a mixture of birch, denote a moist soil, which is excellent for grafs.

When the white pine and the oyl-nut are found in the fame land, it is commonly a deep moist loam,

and is accounted very rich and profitable.

Beech and maple land is generally esteemed the most easy and advantageous for cultivation as it is a warm, rich, loamy soil, which easily takes grass, corn and grain without ploughing; and not only bears good crops the first year, but turns immediately to mowing and pasture; that soil which is deepest, and of the darkest colour, is esteemed the best.

Black and yellow birch, white ash, elm and alder, are indications of good soil, deep, rich and moist, which will admit grass and grain without ploughing.

Red oak and white birch are figns of ftrong land, and generally the ftrength of land is judged of by

the largeness of the trees which it produces.

There are evident figns of a change in the growth on the fame foil, in a course of time; for which no causes can be affigned. In some places the old standing trees, and the fallen decayed trees, appear to be the same, whilst the most thriving trees are of a different kind. For instance, the old growth in some places is red oak, or white ash; whilst the other trees are beech and maple, without any young

oak or ash among them. It is probable that the growth is thus changed in many places; the only conclusion which can be drawn from this circumstance, is, that the same soil is capable of bearing divers kinds of trees; but still there is a difference sufficient to denominate the soil from the growth.

Several ways of raifing a crop on new land have been practifed. The eafiest and cheapest method was originally learned of the Indians, who never looked very far forward in their improvements. The method is that of girdling the trees; which is done by making a circular incision through the bark, and leaving them to die standing. This operation is performed in the fummer, and the ground is fowed in August, with winter rye, intermixed with grass. The next year, the trees do not put forth leaves, and the land having yielded a crop, becomes fit for pasture. This method helps poor fettlers a little the first year; but the inconvenience of it is, that if the trees are left standing, they are continually breaking and falling with the wind, which endangers the lives of cattle; and the ground being constantly encumbered by the falling trees, is less fit for mowing; so that if the labor be not effectually done at once, it must be done in a succession of time.

Some have supposed, that the earth, being not at once, but by degrees exposed to the sun, preserves its moisture, and does not become so hard; but the experience of the best husbandmen has exploded this opinion. The more able fort of husbandmen, therefore, choose the method of clearing the land at first, by cutting down all the trees without exception. The most eligible time for this operation, is the month of June, when the sap is slowing, and the leaves are formed on the trees. These leaves will not drop from the fallen trees, but remain till the

next year, when, being dry, they help to spread the fire, which is then set to the trees. This is done in the first dry weather of the succeeding spring, and generally in May; but if the ground be too dry, the fire will burn deep, and greatly injure the soil. There is therefore need of judgment to determine when the wood is dry enough to burn, and the soil wet enough to resist the action of the fire. Much depends on getting what is called a good burn, to prepare the ground for planting. To ensure this, the fallen trees are cut and piled; and the larger the pile, the better chance there is for its being well burned. But if the land be intended for pasture only, the trees are cut down, and after the fire has destroyed the limbs, grass is sown, and the trunks of the trees are left to rot, which, in time, turn to good

manure, and the pasture is durable.

Some husbandmen prefer felling trees in the winter, or very early in the fpring, before the fnow is gone. The advantage of this method is, that there are fewer shoots from the stumps of the felled trees, than if they are cut in the summer; these shoots encumber the ground, and must be cut out of the way, or destroyed by fire. The disadvantage of cutting trees in the winter is, that they will not dry fo foon, nor burn fo well, as those cut in the fummer, with the leaves on. Besides, the month of June is a time when not only the trees are easiest to be cut, but the feed is in the ground, and people can better attend to this labor, than when they are preparing for their fpring work, or have not finished their winter employments. The days too are then at their greatest length, and more labor can be done in the course of a day. This labor, however, is often paid for by the acre, rather than by the day; and the price of felling an acre, is from one to two dollars, according to the number and fize of the trees.

The burning of trees generally destroys the limbs and finaller trunks; the larger logs are left fcorched on the ground, and fometimes ferve to fence the field. After the fire has had its effect, and is fucceeded by rain, then is the time for planting. No plough is used, nor is it possible for one to pass among the roots and stumps; but holes are made with a hoe in the loose soil and ashes; in which, the feed being dropped and covered, is left to the prolific hand of nature; no other culture being neceffary or practicable, but the cutting of the fire-weed, which spontaneously grows on all burnt land. This fireweed is an annual plant, with a succulent ftalk and long jagged leaf; it grows to the height of five or fix feet, according to the strength of the ashes. It bears a white flower, and has a winged feed, which is carried every where by the wind, but never vegetates, except on the ashes of burnt wood. It exhausts the ground, and injures the first crop, if it be not subdued; but after the second year disappears. About the second or third year, another weed, called pigeon-berry, succeeds the fireweed, and remains till the grass overcomes it. It rises to the height of three feet, spreads much at the top, and bears bunches of black berries, on which pigeons feed.

When the trees are burnt later in the fummer, wheat or rye is fown, mixed with the feeds of grafs, on the new land. The feed is fcattered on the furface, and raked in with a wooden or iron tooth rake, or a hoe. The hufbandman knows on what kind of land to expect a crop, from this mode of culture; and is feldom difappointed. Sometimes a crop of Indian corn is raifed the first year, and another of rye or wheat, the second year, and the land is sown with grafs, which will turn it into pasture or mowing the third year. The first crop, in some land,

and the two first crops in any good land, will repay the expense of all the labor. It is not an uncommon thing for people, who are used to this kind of husbandry, to bring a tract of wilderness into grass for the two first crops; the owner being at no expense but that of felling the trees and purchasing the grass feed. Many husbandmen, in the old towns, buy lots of new land, and get them cleared and brought into grass, in this way, and pasture great numbers of cattle; the feed is excellent, and the cattle are soon fatted for the market.

Husbandmen differ in their opinions concerning the advantages of tilling their new land the fecond year. Some suppose that mixing and stiring the earth, does it more good than the crop injures it; others fay, that one crop is fufficient before the land is laid down to grass; and that if it be sown with grain and grafs, as foon as it is cleared, the large crops of grafs which follow, will more than com-penfate for one crop of grain. When the feeding with grass is neglected, the ground becomes mosfly and hard, and must be ploughed before it will receive feed. Land, thus fown, will not produce grafs fo plentifully, as that which is feeded immediately after the fire has run over it. Besides, this neglected land is generally overspread with cherry-trees, rasp-berry bushes, and other wild growth; to subdue which, much additional labor is required. In good land, the first crops of hay are, on an average, a ton to an acre. That land which is intended for mowing, and which takes the common grafs well at first, is feldom or never ploughed afterward; but where clover is fown, it must be ploughed and seeded every fourth or fifth year; good land, thus managed, will average two tons of clover to the acre.

In the intervale land on Connecticut river, wheat often yields forty, and fometimes fifty bushels to the

acre; but in common upland, if it produce twenty bushels, it is reckoned profitable, though it often falls short of that. Indian corn will sometimes average thirty or forty; but it is to be observed that this latter grain does not produce so largely, nor is the grain so heavy on new as on the old lands well cultivated. This however is owing much to the lateness of the season in which it is planted; if planted as early on the newly burnt land as on the old, it will be nearly as good. Of all grains, winter rye thrives best on new lands, and Indian corn, or barley, on the old. Barley does not succeed well in the new land; nor is flax raised with any advantage, until the land has been cultivated for some years. The same may be said of oats and peas; but all kinds of esculent roots, are much larger and sweeter in the virgin soil, than in any other.

The mode of clearing and cultivating new lands, has been much improved within the last thirty years. Forty years ago it was thought impossible to raise Indian corn without the plough and the hoe. The mode of planting it among the burnt logs, was practised with great success at Gilmantown, about the year 1762, and this easy method of culture soon became universal in the new plantations. It is now accounted more profitable for a young man to go upon new, than to remain on the old lands. In the early part of life, every day's labor employed in subduing the wilderness, lays a foundation for future profit: Besides the mode of subduing new land, there has been no improvement made in the art of husbandry. The season of vegetation is short, and is almost wholly employed in preparing, planting and tilling the land, in cutting and housing fodder, and gathering in the crops. These labors succeed invariably, and must

be attended to in their proper feason; so that little time can be spared for experiments, if the people in general were disposed to make them. Indeed, so sudden is the succession of labors, that upon any irregularity in the weather, they run into one another; and if help be scarce, one cannot be completed before the other suffers for want of being done. Thus hay is often spoiled for want of being cut in season, when the English harvest is plentiful. It is partly from this cause, partly from the ideas of equality with which the minds of husbandmen are early impressed, and partly from a want of education, that no spirit of improvement is seen among them, but every one pursues the business of sowing, planting, mowing, and raising cattle, with unremitting labor and undeviating uniformity.

Very little use is made of any manure excepting barn dung; though marl may be had in many places, with or without digging. The mixing of different strata, is never attended to, though nature often gives the hint by the rain bringing down fand from a hill on a clay bottom; and the grass growing there in greater beauty and luxuriance than elsewhere. Dung is feldom suffered to remain in a heap over the summer, but is taken every spring from the barn, and either spread over the field and ploughed in, or laid in heaps, and put into the holes

where corn and potatoes are planted.

Gardens, in the country towns, are chiefly left to the management of women, the men contenting themselves with fencing and digging them; and it must be said, to the honor of the semale sex, that the scanty portion of earth, committed to their care, is often made productive of no small benefit to their families.

As the first inhabitants of New-Hampshire came chiefly from the fouthwestern counties of England,

where cider and perry were made in great quantities, where cider and perry were made in great quantities, they took care to stock their plantations with apple trees and pear trees; which throve well, and grew to a great fize. The first growth is now decayed or perished; but a succession has been preserved, and no good husbandman thinks his farm complete without an orchard. Perry is still made in the old towns, bordering on Pascataqua river; but in the interior country the apple tree is chiefly cultivated. In many of the townships, which have been settled fince the conquest of Canada, young orchards bear fince the conquest of Canada, young orchards bear well, and cider is yearly becoming more plentiful.
Other fruits are not much cultivated, but from

the specimens which some gardens produce, there is no dou'at that the cherry, the mulberry, the plum and the quince, might be multiplied to any degree. The peach does not thrive well; the trees being very fhort lived. The apricot is fcarcely known. The white and red currant grow luxuriantly, if properly fituated and cultivated. The barberry, though an exotic, is thoroughly naturalized, and grows fpontaneously in hedges or pastures.

The following remarks are fuggested by an inge-

nious friend:*

'In regard to tree-fruit, we are in too northern a climate to have it of the first quality, without particular attention. New-York, New-Jersey, and Pennfylvania, have it in perfection. As you depart from that tract, either fouthward or northward, it degenerates. I believe, however, that good fruit might be produced even in New-Hampshire, with suitable attention. A proof of this is, that fometimes we have it by mere chance. In theorizing on the fubject, three things appear to me particularly necessary, all which are totally neglected by the generality of our husbandmen. The first, after procuring thrifty

Dr. Samuel Tenney, of Exeter.

young trees of the best kinds, and grafting such as require it, is, to choose a fituation for them, where they may have the advantage of a warm rich foil, and be well sheltered from the chilling blasts of the ocean. The fecond, is to keep the trees free from fuperfluous branches, by a frequent use of the pruning-hook, and the earth always loofe about their roots. The third, is to defend the trees from infects, particularly those which by feeding on the fruit, render it finall and knotty, as we frequently find apples and pears; or by depositing their eggs in the embryo, occasion its falling off before it comes to maturity, as is observable in the various kinds of plums. the most of our farmers go on the path traced out by their ancestors, and are generally tverse to making experiments, the refult of which is uncertain, or to adopting new modes of husbandry, the advantages of which, are in the fmallest degree problematical. There are few cultivators among us who theorize, and still fewer who read.'

It has often been complained that grain, flax, and esculent vegetables, degenerate. This may be afcribed to the feed not being changed, but fown fucceffively, on the fame foil, or in the fame neighbourhood, for too long a time. 'The Siberian wheat, 'for feveral years, produced good crops; but be-'coming at length naturalized to the climate, it ' shared the fate of the common kind of wheat, and 6 disappointed the expectations of the farmer. Were ' the feed renewed every five or fix years, by impor-' tations from Siberia, it might be cultivated to ad-'vantage.' It must be observed that the Siberian wheat which was fown in New-Hampshire, about twelve years ago, was brought hither from England, where it had been fown for feveral preceding years. Whether an intermediate stage is favorable to the transplantation of feed from north to fouth, and the

fuccess of its cultivation, may be worthy of inquiry. With respect to plants, which require the whole seafon to grow in, it is observed that 'the removal of 'them from south to north ought to be by short stages; in which case they accommodate themselves, 'by insensible degrees to the temperature and length 'of the vegetating term, and frequently acquire as 'good a degree of perfection in foreign climes, as in 'their native soil. Such are the resources of nature!'

Agriculture is, and always will be, the chief bufiness of the people of New-Hampshire, if they attend to their true interest. Every tree which is cut down in the forest, opens to the sun a new spot of earth, which with cultivation, will produce food for man and beast. It is impossible to conceive what quantities . may be produced of beef, pork, mutton, poultry, wheat, rye, Indian corn, barley, pulfe, butter and cheefe, articles which will always find a market. Flax and hemp may also be cultivated to great advantage, especially on the interval lands of the large rivers. The barley of New-England is much esteemed in the middle States, and the demand for it is fo great, as to encourage its cultivation. It is, be-fides, a kind of grain which is not liable to blaft. Hops will grow on almost any soil; and the labor attending them is so inconsiderable, that there can be no excuse for neglecting the universal cultivation of them. The confumption of them, and confequently the demand for them as an article of commerce, is continually increasing.

The first neat cattle imported from Europe into New-Hampshire, were sent by Captain John Mason and his associates, about the year 1633, to stock their plantations, and to be employed in drawing lumber. These cattle were of a large breed, and a yellow colour, procured from Denmark. Whilst the business of getting lumber was the chief employ-

ment of the people, the breeding of large cattle was more attended to than it is now. Calves were allowed to run with the cows, and fuck at their pleafure. Men were ambitious to be diftinguished by the fize and strength of their oxen. Bets were frequently laid on the exertions of their strength, and the prize was contended for as earnestly as the laurel at the Olympic games. This ardor is not yet wholly extinguished in some places; but, as husbandry hath gained ground, less attention is paid to the strength, and more to the fatness of cattle for the market, and calves are deprived of part of their natural food, for the advantage of butter and cheese.

As the country becomes more and more cleared, pasture for cattle increases, and the number is continually multiplied. From the upper parts of New-Hampshire, great herds of fat cattle are driven to the Boston market; whence the beef is exported fresh to Nova-Scotia, and salted to the West and East-

Indies.

At what time and by whom the horse was first imported does not appear. No particular care is taken by the people in general, to improve the breed of this majestic and useful animal, and bring it to that perfection of which it is capable. The raising of colts, is not accounted a profitable part of husbandry, as the horse is but little used for draught, and his slesh is of no value. The proportion of horses to neat cattle, is not more than one to twenty. Few live and die on the plantations where they are bred; some are exported to the West-India Islands; but the most are continually shifted from one owner to another, by means of a set of contemptible wretches called horse-jockies.

Affes have been lately introduced into the country; the raifing of mules deferves encouragement, as the exportation of them to the West-Indies, is more

profitable than that of horfes, and they may be used to advantage in travelling or carrying burdens in the rough and mountainous parts of our wilderness.

Sheep, goats and fwine, were at first fent over from England, by the associates of Laconia. Sheep have greatly multiplied, and are accounted the most profitable stock which can be raised on a farm. The breed might be renewed and improved by importing from Barbary, the mufflon, which is faid to be the parent stock of the European, and confequently of the American sheep. Goats are not much propagated, chiefly because it is difficult to confine them in pastures. Swine are very prolific, and scarcely a family is without them. During the fummer, they are either fed on the waste of the dairy and kitchen, or ringed and turned into fields of clover; or permitted to run at large in the woods, where they pick up nuts and acorns, or grub the roots of fern; but after harvest they are shut up, and fatted on Indian corn. The pork of New-England is not inferior to any in the world.

Domestic poultry of all kinds, is raised in great plenty and perfection in New-Hampshire. In some of the lower towns they have a large breed of sowls, which were imported from England about twenty years past; but this breed is permitted to mix with the common fort, by which means it will, in time, degenerate. The stock of all domestic animals, ought frequently to be changed, if we would preserve them unimpaired, or restore them to their original per-

fection.

CHAP. X.

Native Animals.

AS the animals of this part of America have not been accurately examined by naturalists, neither a complete description, nor even a perfect catalogue, can be expected. The greater part are known by vernacular names, and fome of thefe are adopted from the Indians; but so variously, and often erroneously, are these names applied, that the information derived from them, is to be received with caution. Formal descriptions, even those which are diffuse, sometimes prove defective, from the want of a knowledge of those effential characters by which the arrangement of animals is made. The following catalogue, arranged in the order of Linnæus, is intended to give a general idea of this branch of our natural history. Some remarks are added, which may elucidate the qualities of fome of the animals, together with the manner of rendering them subservient to the purposes of human life, or of guarding ourselves against the noxious disposi-tions with which some of them are endowed.*

QUADRUPEDS.

Seal (phoca vitulina.)

Wolf (canis lupus.) This animal is very common, and very noxious. A bounty of twenty dollars is, by law, paid for his head, and if it were doubled, the breed of sheep would be augmented sufficiently to make up the difference. He is frequently taken

Those animals which have not been particularly examined, or which in the characters do not appear to accord with the Linnaean description, are distinguished by the note (?) of interrogation. Specific names are given to such as evidently appeared to be a new species, and these names, by the express desire of Dr. Cutler, are printed in italic capitals.

in log traps, and, to decoy him, the hunters fcent the ground with a drug, of which they affect to make a fecret. Joffelyn tells of another method of deftroying wolves 'by binding four mackarel hooks with thread, and wrapping fome wool about them, and then dipping them in melted tallow till a ball be formed as big as an egg. These balls are scattered by a dead carcase on which the wolf has once preyed, and when he returns the next night, the first thing he ventures upon will be these balls of fat. He also speaks of two species of wolves, one with a round balled foot, the other with a slat foot; and of a mongrel between the wolf and the fox, which the Indians used as dogs.

Red Fox (canis alopex?)
Grey Fox (canis—.)

Foxes are generally found in those woods which are not remote from houses. They are commonly taken in steel traps, but are sometimes dug out of their burrows. Formerly the head of a cod was used as a bait for the fox. It was laid in considerable quantities on the shady side of a sence, in a moon light night; and the gunner placed himself in ambush to shoot the fox at his approach. The silver grey and cross streaked fox skins, are accounted the most valuable, but the common red fox skin is in much demand.

Wild Cat (felix lynx.) Of this species, the mountain cat is the largest; but the black cat has the most valuable skin. Some authors have pretended, that the wild cats of America, are a degenerate breed of the European cat imported hither. This opinion does not coincide with their own hypothesis, that the animals of the old world are dwindled in size, and less ferocious since their transportation to the new. It is certain, however, that neither of these opinions has any just foundation.

Skunk (viverra pulorius.) There is no stronger or more volatile odour in all nature, than the fubftance which this animal ejects when purfued or in danger. The 'diabolical fcent,' as Buffon calls it, does not proceed from 'its urine,' but from a small bag which is attached to its skin, and comes off with it. The flesh is white and sweet, and is, by some people, relished as food. The fat is much esteemed as an ointment in pains and fwellings of the joints. Goldsmith says, that this animal is 'often kept tame about the houses of the planters in America,' and in the next paragraph, that 'it steals into farm yards, and kills poultry.' The truth of this latter affertion is often experienced; but no American is fond of fuch company. The skunk sometimes burrows under our barns, but is always an unwelcome intruder.

Otter (mustela lutra?) Some of these have been tamed, and taught to catch fish for their owners.

Martin (multela—.) This animal keeps itself remote from human habitations. Its skin is much valued, that of the darkest shade is prefered.

Weafel (mustela martes?)
Ermine (mustela erminea.) This beautiful little animal is red, like a fox in fummer, and white in winter. It is distinguished from the common weafel by the tip of its tail, which is always black. It is not common, but some of this species have been

found in New-Hampshire.

Bear (ursus arctos.) Buffon speaks of two species of bears, the brown and the black, and he denies that the latter is carnivorous. The black bear only is known in this part of America, and he is one of the most noxious animals of our forest. In the months of August and September, he makes great havoc in the fields of Indian corn, in the new fettlements. He places himfelf between two rows of corn, and with his paws breaks down the stalks of four contiguous hills, bending them toward the centre of the space, that the ears may lie near to each other, and then devours them. Passing in this manner through a field, he destroys the corn in great quantities. To prevent this, the fields are fometimes guarded, by night; but this method is too tedious to be constant. Another is, to place a loaded gun, and stretch a line, connected with the trigger, across the field, so that the bear in his walk, by pressing against the line, may draw the trigger, and kill himself. This practice has sometimes been attended with success; but there is danger that people, who are not apprized of the design, may, in passing through a field, kill or wound themfelves; and in fact this mode of fetting guns, has, in some instances, proved fatal. Another way of taking the bear, is by setting log traps; but this is uncertain. A good dog is the safest defence, if he could be induced to remain by night in the field. In the autumn of fome years, the bears come down into the old fettlements, and they have been feen in the maritime towns; but now, their appearance in these places, is extremely rare. They are very fond of sweet apples, and will sometimes devour young swine, but very seldom attack mankind. An affecting instance of a child falling a prey to one of them, happened at Moultonborough, in the month of August, 1784. A boy of eight years old, son of a Mr. Leach, was sent to a pasture, toward the close of the day, to put out a horse, and bring home the cows. His father being in a neighbouring field, heard a cry of diffress, and running to the fence, saw his child lying on the ground, and a bear standing by him. He seized a stake, and crept along, with a view to get between the bear and the child. The bear took the child by the throat, and drew him into the bushes. The father purfued till he came up, and aiming a stroke at the bear, the stake broke in his hand; and the bear, leaving his prey, turned upon the parent, who, in the anguish of his foul, was obliged to retreat, and call for help. Before any fufficient help could be obtained, the evening was fo far advanced, that a fearch was impracticable. The night was paffed by the family in the utmost distress. The neighbours assembled, and at break of day, renewed the purfuit. The child's hat, and the bridle, which he had dropped, were found, and they tracked his blood about forty rods, when they discovered the mangled corps. The throat was torn, and one thigh devoured. Whilst they were standing round the body, the bear rose from behind a log. Three guns were fired at the fame inftant, which dispatched him; and a fire was immediately kindled, in which he was confumed. This was a male bear, of about three years old.

I have met with but one other instance of the same kind; it happened in the year 1731, at a new plantation on Suncoock river. A man being at work in a meadow, his son, of about eight years old, was sent to call him home to dinner. On their return, there being two paths through the woods, the son going first, took one, and the father the other. At dinner the child was missing, and after waiting some time, the father went to seek him, in the path which it was supposed he had taken. To his inexpressible surprise, a bear started up from among the bushes,

with the bleeding corps between his teeth.

The Racoon (urfus lotor) lives in hollow trees, and fometimes feeds on corn in the fields. Its flesh is excellent food. Its fur is valued next to the beaver for hats. Buffon fays that the racoon is found only in the fouthern countries of America. It is certain.

ly found in New-Hampshire, and in the eastern division of Massachusetts.

The Wolverine (urfus lufcus) is a mischievous animal. He fits on the bough of a tree, near the paths of the deer and the moofe, and jumps on their back, to which he clings by his claws till he has torn a hole in their neck and killed them. He enters the cabins of the Indians in their absence, and plunders them of eatables. Gyles, in his memoirs, tells a story of a wolverine, which, in one of these depredations, happened to throw a bag of gunpowder in-to the fire, by which means he loft his eyes, and became the fport of the Indians at their return.

The Woodchuck (urfi vel mustelæ species) is a small animal which burrows in the earth. It is generally fat to a proverb, and its flesh is palatable food.

Mole (talpa europea.)

Shrew Mouse (forex cristatus.) Ground Mouse

(forex murinus.) Field Mouse (forex araneus.)
Porcupine (hystrix dorsata.) This animal is dangerous to dogs, for on seizing it they are tormented with its quills, which quills are of the fize of pigeon's quills. The Indians dye them of various colours, and work them into various figures to adorn their belts, pouches, mockaseens, and birchen dishes.

Hare (lepus timidus?) Rabbit (lepus cuniculus.)

The Beaver (castor siber) is one of the most useful as well as fagacious animals of our wildernefs. is now become fcarce in New-Hampshire, but the

vestiges of its labours are very numerous.

The beaver is not only an amphibious animal, but is faid to form a connecting link between quadrupeds and fishes. It delights in still water, of which it must have full and undisturbed possession. The depth of the water must be such as that it must have

fufficient room to fwim under the ice. The male and female, with their young of one year old (called by the Indians peoys) form a family which confift generally of fix. These inhabit one cell; but when come to the age of two years (paylems) they

go off and build for themselves. They fometimes choose a natural pond for the scene of their habitation and amusement; in which case they dig a hole in the earth, near the edge of the pond, and line it with sticks; to this they have a fubterraneous paffage from the water. Sometimes they refide on the coves or eddies of great rivers, where the water is still; but it is more usual for them to construct a dam, which by stopping the course of a stream, may overslow a piece of ground, and form a pond to their liking. In the choice of a spot for a dam, they have fagacity to judge whether it will confine and raise the water to answer their purpose. They take advantage of wind fallen trees, of long points of land, of small islands, rocks and shoals; and they vary the shape of their dam according to thefe circumstances, making it either circular, direct or angular; and the best human artist could neither mend its position or figure, nor add to its stability. It is constructed entirely of sticks and earth; the flicks are for the most part placed up and down the stream, feldom across, but always closely interwoven and cemented by mud, brought on their tails, which being broad and flat, answer the purpose of a trowel as their teeth do that of a faw. They have four incifive teeth, two in the forepart of the upper, and two of the under jaw, sharp and curved like a carpenter's gouge; with these they cut off trees and bushes of the softest wood, white maple, white birch, alder, poplar and willow; with thefe kinds of wood they construct their dams, and of these they always

have a fufficiency funk under the water to ferve them for food in the winter.

With respect to the fize of the trees which they fell, and some other circumstances relative to their labours and habits, many marvellous stories have been published. La Hontan fays they will cut off a tree 'as big as a hogshead.' Buffon, and after him Raynal and Goldsmith, speak of their 'sharpening stakes, and driving them into the ground.' Others have afferted things much more incredible.* The beaver is in reality a fagacious, laborious, and patient animal, and makes great use of his teeth in felling many small trees, and cutting them into pieces convenient for his use; but he has no instrument with which to drive them into the ground. The fize of the trees which he generally chooses, is from one to ten inches in diameter; these are young trees, tender and sweet for food. Necessity sometimes obliges a number of them jointly to attack a tree of larger fize. The largest of which I have any certain information is from fifteen to eighteen inches in diameter; but this is rare, and the felling of fuch a tree must require much labor, since those of but one inch have eight or ten strokes, distinctly marked, and a very good kerf is allowed.

Some accounts mention feveral hundred beavers affembling and holding a council previously to beginning a dam; but I am affured that a single family, and even a single beaver, when he has lost his partners, will go regularly to work either in building or repairing a dam as there may be occasion. I have myself taken sticks newly cut, from a dam, where a solitary beaver was at work. Josselyn tells of a beaver which was domesticated at Boston, and

^{*} The most full and perfect account of the beaver which I have seen is in Hearne's journey to the Northern ocean, page 231, &c, where he detects and ridicules the many fictions and extravagant stories which have been related of these animals.

ran freely about the streets, retiring at night to the house of his owner.

The beaver's dam is from fix to ten feet thick at the bottom, according to the breadth of the stream or the quantity of water. It flopes but little on the lower, and much on the upper fide, and is from two to four feet wide at the top. It is always of fuch height as will confine a fufficiency of water for their purpose. After it is constructed, they place fods of wild grass upon it, so that in the course of a year it becomes swarded over like a portion of meadow. Those parts which are in the shoalest water, near the banks, are fo confolidated, that after the middle of the dam is broken, these will remain like natural points of firm earth. On the top of the dam, in the middle, they always leave a fluice or passage of eighteen inches wide, and as many deep; and when the stream is large, they leave two or three, which the hunters call fliding-places. In these they divert themselves by sliding or swimming down the stream. It is not inconvenient for this animal to be long under water; nor is he wet when he leaves it to take the land; his coat is fo well oiled that no water adheres to it.

When the dam is built, the house is begun. It is in the form of a hay cock, and of a fize proportioned to the number of the family. The walls are two or three feet thick at the bottom, and are formed of the same materials as the dam. The door is not only under water, but below, where the water freezes. The lower story is about two feet high, and a floor of sticks, covered with mud, composes the second story. At the same distance a third story is formed, and then the roof is raised in an arched form. It is smooth on the inside, and above the water, always dry and clean. Through each floor there is a communication, and the upper floor is always

above the level of the water when at the highest. The outside of the house is rough but tight; and if it ever decays, it is repaired. When the hunters find the houses out of repair, they conclude that the beav-

ers have forfaken the pond.

In the winter it is necessary for them to keep one or more breathing holes in the ice constantly open, near the houses; for which purpose they break the ice every night. It is considently afferted by the hunters, that all their work is done by night, and that they are never seen in the day unless it be cloudy and dark. During the winter, they live on the wood which they have previously sunk under the water, and in the summer they are employed in repairing their houses and dams, or gathering their food in the neighbouring woods, to which they trav-

el in narrow, beaten paths.

In these paths, or in the water where the path ends, or in the sliding places of the dam, the hunter fets his fteel fpring trap, which is previously fcented with beaver's oil. Sometimes he raifes a heap of mud, or peels little flicks, and having fcented them, fets them up at the edge of the pond, placing the trap under water, near the mud or flicks. The trap is fecured by a chain, or the beaver would draw it after him. He often escapes with the loss of a foot. Sometimes he is fhot in the water, or on the land. When a beaver difcovers an enemy, he strikes the water with his tail; the noise alarms the whole family, and they are in a moment under water. The best fur is that which is taken in February and March; in the fummer, their fur is not good. The way of preferving the fkins, is by falting and packing them in a close bundle, with the flesh fides together.

One valuable purpose which the beaver serves, is not mentioned, by any of the writers of natural his-

tory, which I have had opportunity to confult; but I shall give it, in the words of a friend, to whom I am indebted for feveral communications respecting the original and cultivated state of the country.* 'The beavers, in building their dams, have no other de-' fign than that of making a habitation agreeable to the natural bias, with which they are formed; but, 'I conceive, that Being, by whom the universe is so ' wifely governed, has a farther defign in this little 'animal, who with unwearied labor builds a dam, ' which stops the water from pursuing its natural 'course, and makes it spread over a tract of land ' from five to five hundred acres in extent; and most ' commonly the worst of land, a mere alder swamp or bog, and the larger the tract, the more likely is 'it to be the worfe. By means of the waters continu-' ing on this tract, more than half the year, for many ' years together, every thing which grew upon it is 'drowned; all trees, bushes and shrubs are killed. In a course of time, the leaves, bark, rotten wood ' and other manure, which is washed down, by the ' rains, from the adjacent high lands, to a great ex-' tent, spread over this pond, and subside to the bot-' tom, making it smooth and level.

'It is now that the hunter, ferreting the innocent beaver, is also made subservient to the great design of Providence; which is, by opening the dam, and destroying the beaver, so that it is not repaired. Of consequence, the water is drained off, and the whole tract, which before was the bottom of a pond, is covered with wild grass, which grows as high as a man's shoulders, and very thick. These meadows doubtless ferve to feed great numbers of moose and deer, and are of still greater use to new settlers, who sind a mowing field al-

^{*} MS. letter of Joseph Petrce, Esq.

'ready cleared to their hands; and though the hay 'is not equally as good as English, yet it not only 'keeps their cattle alive, but in tolerable order; 'and without these natural meadows, many settle-'ments could not possibly have been made, at the 'time they were made. Such as are not senced, 'afford the cattle good pastures in the beginning 'of the year, as the grass shoots very early. It is 'observed that those meadows which are mowed 'constantly, produce less at every mowing; but 'will always hold out, where settlers are industri-'ous, till they have cleared ground enough to raise 'English hay. I have more than two hundred 'acres in one body, made by several dams, across 'one brook, at various distances from each other.'

The Musquash (castor zibethicus) builds a cabin of sticks and mud in a shallow pond. He is not so shy of man as the beaver; but is frequently sound in the cultivated parts of the country. The oil-bag of the Musquash, wrapped in cotton, affords a perfume, grateful to those who are fond of musk.

The Mink (mustela) is an amphibious animal, and burrows in the earth by the side of rivers and ponds. Its fur is more valuable than the mustellar

quash.

The Ground Rat (musterrestris native.)

The Black Rat (mus—) is a native, but it retires back into the country as the grey rat, which is imported in vessels from abroad, advances. The town of Hampton, though adjoining the sea, and one of the earliest settlements in New-Hampshire, had no grey rats till the year 1764, when an English mast ship was wrecked on the beach. This species of rat has advanced about thirty miles into the country, and farther, along the great roads. To prevent the entrance of this noxious animal into corn houses, the fills are laid on short posts, each of which is cap-

ped with a broad flat stone, over which the animal

cannot pass.

Of Squirrels we have four species. The Black (fciurus niger) and the Grey (fciurus cinereus) though distinguished by Linnæus, differ here only in colour; the former is very rare, the latter very common. This is the largest species of Squirrels. It builds its nest in the crotch of a tree, generally a white oak, and there breeds and nourishes its young. It feeds on acorns and nuts, and lays up its winter food in the hollow parts of old trees.

The Red squirrel (sciurus flavus?) is the next in

fize, and its habits are nearly the fame.

The Striped squirrel (fciurus striatus) is smaller. It provides its winter food from the cornfields, and deposits it in holes in the earth, after having deprived each kernel of its germe, that it may not sprout.

The Flying squirrel (fciurus volans) is the least and most beautiful. Its fur is the most fine and delicate of any quadruped. It feeds on the buds

and feeds of vegetables.

The Moose (cervus tarandus?) is the largest animal of our forest. His palmated horns extend from four to six feet in breadth, and are from thirty to sifty pounds in weight. He has hair on his neck resembling the mane of a horse. His hoof is cloven, and when he trots, the clattering of it is heard at a great distance. His course through the woods is straight, to a proverb. He feeds on the wild grass of the meadows, or on the leaves and bark of a species of the Cornel, which is called moose-wood. When vexed by the slies in summer, he takes to the water, where he feeds on the wild oats or pond slilies. His sless is of a coarser grain than beef, but sweet and tender. His slip, which is broad and cartilaginous, is accounted by the Indians and by our

own huntimen a dainty, and his tongue is 'a dish for a fagamore.' The hide is thick and firm, and is made into fost and durable leather. When the Indians kill a moose or a deer, they cut off the hoof and draw out the sinews, of which they make the

strongest cords.

The Deer (cervus dama?) was formerly found in very great plenty; but having been wantonly deftroyed at improper feafons of the year, is now become fcarce. The best time to hunt this animal for the facility of taking it, is in the winter, when there is a deep snow with a crust on its surface; but its skin is most valuable when killed in the warm months.

Hunting is an employment followed by fome people, who prefer rambling, to a life of fettled industry. The moofe and the deer are tracked and purfued by dogs; or the huntsman lies in wait for them, at certain defiles, where they are known to pass, or near waters in which they bathe. The bear is sometimes unkennelled when retired to his den; or when ranging, if he take to a tree, he is a fair mark.

A new mode of driving away the wolf has been attempted with fuccefs. The town of Amherst was a few years ago much infested with this noxious intruder. On a day appointed, the inhabitants, by general consent took their arms, and surrounded a large swamp which they penetrated in every direction, as far as it was practicable; and kept up an incessant siring of guns and beating of drums through the day. In the following night the wolves quitted the swamp with a dismal howling, and have never since done any mischief in that town.

'The only mamillary biped which we have is the Bat (vefpertilio murinus) which forms the connecting

link between the beafts and the birds.

Of Birds we have a great variety. The following catalogue is the most full, which has been collected, but cannot boast of perfection.

1. Bald Eagle, 2. Brown Eagle, 4. Large Brown Hawk, 5. Hen Hawk, 3. Pigeon Hawk, 6. Fish Hawk, 1. Horned Owl, 2. White Owl, 3. Speckled Owl, 4. Barn Owl, Bird Hawk, King Bird, Crow, Blue Jay, Hang Bird, Red winged Black Bird, Golden Robin or Gold Finch, Crow Black Bird, Cuckow, Great Red Crested Wood-Pecker, Swallow Wood-Pecker, Red Head Wood-Pecker, White Back Wood-Pecker, Carolina Wood-Pecker, Woody Back Wood-Pecker, White Tail Wood-Pecker, Speckled Wood-Pecker,

Nut Hatch,

Kingfisher, Creeper, Humming Bird Swan.

Falco leucecephalus. Falco fulvus.

Falco hudsonius ?

Falco sparverius ? Falco Subbuteo,

Falco Haliaetus ?

Strix Bubo.

Strix nyctea.

Strix Aluco.

Strix passerina.

Lanius canadensis.

Lanius tyrannus.

Corvus Corax.

Corvus cristatus.

Oriolis Icterus.

Oriolus phaniceus.

Oriolus Baltimore ?

Gracula Quiscula.

Cuculus americanus ?

Picus pileatus ?

Picus hirundenaceus.

Picus erythrocephalus.

Picus auratus.

Picus carolinus.

Picus pubescens.

Picus villosus 3

Picus maculo us#

Sitta curspace

Sitta canadensis.

Alecdo Alcyon.

Certhia pinus ?

Trochilus colubris.

Anus cygnus.

The swan is the largest of the aquatic tribe which is feen in this country. One of them has been known to weigh 36 lb. and to be fix feet in length from the bill to the feet, when stretched. +

^{*} Since the printing of the note page 108, I find that the request of Dr. Cutler, respecting the new specific names, was, that they should be 'distinguished by a character 'different from the others.' It was at first thought that 'Italic capitals' would be as proper a distinction as any other; but this is found, on further inquiry, to be contrary to the practice of that class of authors. A smaller type is therefore used by way of dis-

[†] This bird migrates to the Northward so early as to find no water but at the falls of Hearne's Journal, p. 288. sivers where there is no icc.

Naturalists have different opinions respecting the music of the swan. The tame swan of England is said to be silent; and Dr. Goldsmith seems to think the accounts of the music of the wild swan fabulous. What is deemed fabulous in Europe, is often realized in America. It is certain that our swan is heard to make a sound resembling that of a trumpet, both when in the water and on the wing. Mr. Hearne says that the swan at Hudson's Bay makes a noise resembling the sound of a French Horn. Page 436.

White Head Coot, Brown Coot, Black Duck Coot, White Goose, Bluish Goose, Brant or Brent, Wild or Black Goose, Anas spectabilis,
Mnas fusca.
Anas nigra.
Anas crythrofus.
Anas caerulescens.
Anas bernicla.
Anas canadensis.

This is the bird which Dr. HILL calls the Swan Goofe. It is a bird of passage, and gregarious; the form of the phalanx, when on the wing, is that of a wedge. By the mixture of this with the common goose, a mongrel breed is produced, which is more valuable than either of them singly. The wild goose, though it migrates from one part of the continent to the other, yet has its local attachments. One of them, which was caught in the spring, and kept in a farm yard with a slock of domestic geese, when the time of its migration arrived, took the first opportunity to join a slock in their passage to the southward; but at the return of spring, came back and alighted in the same yard with four young ones, which she had produced in her absence.

The BRANT is rare in New-Hampshire; but in the bay of Massachusetts, is found in great abun-

dance.

Sea Duck, Dipper, Oldwife, Red Head Quindar, Quindar, Whistler, Grey Duck, Widgeon, River Coot or Ash colour Duck, Mallard or Sprig-tail Duck, Lord and Lady, Blue wing Teal, Green wing Teal, Crested wood Duck, Wood Duck, Cream colour Shelldrake, Red belly Shelldrake, Pyed Shelldrake, Murr, Penguin, Sea Parrot, Peterel or Mother Carey's Chickens. Pelican.

Anas mollissima. Anas albeola. Anas hycmalis. Anas ferina. Anas bucethala. Anas clangula ? Anas Penelope. Anus Marila. Anas cincrea. Anas acuta. Anas histrionica? Anas discora ? Anas ---. Anas sponsa. Anas arborca. Mergus Merganser? Mergus Servator ? Mergus Castor ? Alca Torda. Alea impennis. Alea artica. Procellaria pelagica.

Pelicanus onocrotalus occidentalis.

The Pelican migrates from its native country, the Miffifippi, far to the northward. It has been feen in New-Hampshire. The American Pelican is not a distinct species from the Pelican of Asia and Africa, but a variety only.

Shag, Gannet, Brown Throat Loon, Sea Loon, White Gull, Eagle Gull, Mackerel Gull, Tec-Arr, or Fishing Gull, Swallow tail Gull or Medrake, Crane, Stork, Blue Heron, Skouk, White Heron, Woodcock, Wood Snipe, Grey Curlew, Large Speckled Curlew, Humility, Marsh Bird,

Pelecanus graculus? Pelecanus bassanus? Colymbus Septentrionalis. Colymbus Immer. Larus candidus. Larus marinus. Larus ridibundus. Sterna minuta. Sterna Hirundo? Ardea canadensis. Ardea ciconia. Ardea carulea. Ardea virescens, Ardea alba. Scolopax Rusticola, Scolofiax fedoa. Scolopax totamis. Scolofiax lapponica, Tringa interpres? Tringa morinella?

Rock Bird,
Beach-Bird,
Ox-Eye,
Kildee,
Black Breast Plover,
Uplend Plover,
Large Spotted Plover,
Puep,
Wild Turkey,

Tringa maculata.
Tringa arenariu.
Charadrius alexandriuss?
Charadrius vocifirus?
Charadrius apricarius.
Charadrius tetradactylus.
Charadrius maculatus
Rullus carolinas.
Meleagris gellofavo.

Wild Turkies were formerly very numerous. In winter they frequented the fea shore, for the sake of picking small fishes and marine insects, which the tide leaves on the flats. Joffelyn, who refided eight years in the province of Maine, and wrote in 1672, fays, that he had eaten part of one, which, when prepared for the fpit, weighed thirty pounds; and Wood, who vifited the country earlier, and wrote in 1639, speaks of some which weighed forty pounds. They are now retired to the inland mountainous country. Dr. Goldsmith doubts whether any of this breed have been tamed in America. They certainly have been tamed; but they are degenerated in fize by their domestication, scarcely any being more than half so heavy as those above mentioned. The turkey is a rambling bird, and runs with great speed on the ground. The tame flocks frequently wander, and cannot be fatted till the fnow prevents their excursions.

Growfe,

Tetrao-----

The Growse is rarely seen, as there are no dry heaths in New-Hampshire, but on the tops of the largest mountains, which are seldom visited by man. This bird has a red head, is larger than the partridge, and its sless, though red and dry, has a high slavour, and is very tender.

Quail, Partridge,

Tetrao virginianus. Tetrao marilandicus. The Partridge is very common in our woods. Some of our epicurean gentry, have begun to fear, that its race will be too foon extinct; but there is no danger. This bird is very prolific; it is common to find twenty of its eggs in a neft; and it has feveral coveys in a feafon. Quails are equally prolific. In the fouthern and middle States, the quail is called a partridge, and the partridge a pheafant. The true pheafant is not a native of our wildernefs. The late Governor Wentworth brought feveral pairs of pheafants from England, and let them fly in his woods, at Wolfborough; but they have not fince been feen.

Wild Pigeon,

Columba caroliniensis (dub.)

Wild Pigeons come in the fpring, from the fouthward, in great flocks, and breed in our woods, during the fummer months. They choose the thickest parts of the forest, for the situation of their nests. Josselyn fays 'they join nest to nest, and tree to tree, by their nefts, many miles together, on the pine 'trees.' In the journal of Richard Hazzen, who furveyed the Province line, in 1741, there is this remark; 'for three miles together, the pigeons' nefts were fo thick, that five hundred might have been 'told on the beech trees at one time; and could ' they have been counted on the hemlocks, as well, I 'doubt not but five thousand, at one turn round.' This was on the western side of Connecticut river, and eastward of Deerfield river. Since the clearing of the woods, the number of pigeons is diminished,

Turtle Dove,
Sky Lark,
Marsh Lark,
Robin,
Thrush,
Thrasher or Mockbird,
Cherry Bird,
Crossbill,

Columba carolinensis.
Alauda alpestris.
Alauda magna.
Turdus migratorius.
Turdus rufus.
Turdus Orpheus?
Ampelis Garrulus.
Loxia curvirostra?

The Cross Bill is a bird rather larger than the sparrow; it is common in the western and northern parts of the State. The upper and lower parts of its beak cross each other like a pair of shears, by which means it cuts off the stalks of wheat and rye, and then lays the side of its head to the ground to pick the kernels. The female is of a shaded olive colour. The male is of the same, but tinged with red.

Snow Bird,

Emberiza hyemalis?

The Snow Bird is fmaller than a sparrow, and appears in little flocks, in the winter, enlivening the gloom of that dreary season. They perch on the tops of the spires of dead grass, above the snow, or on spots of bare ground, or on the bushes and trees. They are seldom molested, as one of them is scarcely a mouthful; but they have the same delicate taste as the quail. Besides the snow bird, the crow, the blue jay, the woodpecker and the partridge, have a degree of hardiness, equal to the severity of our winters, and are then seen slying; all others avoid it, by seeking a timely retreat.

Boblincoln, Red Linnet, Cheeweeh, Yellow Bird, Winter sparrow, Chipping Bird, Spring Bird, Several species of Sparrows, Crested Fly-Catcher, Hedge Bird, Cat Bird, Brown Flycatcher, Yellow Crown, Grape Bird, Blue Bird, Crested Wren, Common Wren, Crested Titmouse,

Emberiza oryzivora. Tanagra rubra. Fringilla erythropthalma? Fringilla tristis. Fringilla grisea. Fringilla ? Fringilla. Fringilla. Muscicația crinita. Muscicapa canadensis, Muscicapa carolinensis. Muscicația susca. Muscicapa flava. Motacilla icterocephula; Motacilla Sialis. Motacilla Regulus. Motacilla Trochilus. Parus bicolor.

Blue Titmonse,
Tom Teet,
Yellow Ramped Tom Teet,
Little Hang-Bird,
3 Bink Swallow,
4 Plack Martin,
1 Bain Swallow,
2 Small Martin,

Parus americanus.
Parus atricafillus.
Parus virginianus.
Parus pendulnus?
Hirundo riperia.
Hirundo purpurea.
Hirundo vastica.
Hirundo urbria.

The Swallow appears in April, and disappears in August. It was formerly supposed to migrate, but the evidences of its retiring to the water, or marshy ground, and there remaining torpid, during the winter, are so many, that this opinion is now generally received.

Chimney-Swallow, Whip-poor-will, Night Hawk, Hirundo pelasgia Caprimulgus europæus. B Caprimulgus americanus.

AMPHIBIOUS REPTILES.

Mud Turtle,
Speckled Turtle,
Toad,
Pond Frog,
Green Pointain Trog,
Speckled Frog,
Tree Prog,
Bull Frog,
Swift,
Brown Lizard,

Testudo denticulata.
Testudo carolina?
Nana Fufo?
Rana ocellata.
Rana esculanta.
Rana macuiata.
Rana arborca.
Rana bours.
I accerta fusciata?
Lacerta fusciata.

AMPIHBIOUS SERPENTS.

Rattle Snake,

Crotalus horridus.

The Rattle Snake is the most venomous of all the serpent tribe, in this part of America; but its motion is so slow, and the sound which it gives by rattling its tail, before it darts on its prey, is so distinguishable from the very sew other noises which are heard in the woods, that it is easily avoided. The rattle snake of New-Hampshire is of a darker colour, and less variegated than that which is found about the blue hills, in Suffolk county, Massachusetts.

There are certain boundaries, beyond which, to the northward, none have been feen in New-Hampshire. These are on the western fide of the country, Sugar river, a branch of the Connecticut, and Sawyer's river, a branch of the Saco. They have been very common about the shores, and on the islands of Winipiseogee lake; but as the country is settled, the number decreases: In the autumn they retire to their dens, in the cavities of rocks, which are open to the fouth; where they remain till the warmth of the fummer funinvites them to bask in its beams. During their torpid state, some persons make a practice of drawing them from their dens, with hooks, and destroying them. In the hottest weather, they refort to meadows, and other watry places. Some years ago, in a dry fummer, a number of people from Rochester, went to a meadow in the woods with an intention to mow it, but found it fo full of rattle fnakes, that they fet fire to the grafs and quitted the place. The following fingular fact deferves to be remembered. A dog, belonging to a Mr. Wormwood, of Durham, being bitten by a rattle-fnake, immediately went in fearch of a foft loamy fpot of earth, in which he fcratched a hole and buried himself all over, excepting his head. Here he remained, refusing all nourishment, till the earth had extracted the venom. This fact was certified to me by John Smith, Efq. of Durham, lately deceased.

Small Brown Adder,
House Adder,
Water Adder,
Brown Snake,
Green Snake,
Black Snake,
White Neck Black Snake,
Striped Snake,

Coluber striatulus.
Coluber functatus?
Coluber fusciatus.
Coluber Sipedon.
Coluber Saurita?
Coluber constrictor.
Anguis eryx?

AMPHIBIOUS FISHES.

Lamprey, Sea Sucker, Petromyzon fluviatalis?
Petromyzon marinus.

The Lamprey frequents most of our rivers, especially where the passage is not interrupted by dams. In Merrimack, they ascend to the waters of Pemigewasset, and are found in plenty as far as Plymouth. That part which is below the air holes is salted and dried for food. After the spawning season is over, and the young fry have gone down to the sea, the old fish attach themselves to the roots and limbs of trees which have fallen or run into the water, and there perish. A mortification begins at the tail, and proceeds upward to the vital part. Fish of this kind have been found at Plymouth, in different stages of putrefaction.

Thornback, Dog Fish, Shark, Monk Fish, Sturgeon, Lumpfish, Raja Fullonica.
Squalus Acanthias.
Squalus stellaris?
Loshius siscatorius.
Acipenser sturio.
Cyclosterus lumpus.

TISHES.

Eel, Conger Eel, Cat Fish, Snake Fish, Haddock, Cod, Murena anguilla.
Murena conger.
Anarhichas lupus.
Ophidium imberbe.
Gadus aglesinus.
Gadus Morhua.

The Cod comes into the river Pascataqua, in the spring and fall, and is taken at sea, in all months of the year. The best are caught in the winter. The next in quality are taken in the spring and beginning of summer; the third kind in the latter end of summer and beginning of autumn.

Frost Fish, Pollack, Small Pollack, Gadus luscus. Gadus pollachius. Gadus virens. Hake, Snake Fish, Wolf Fish, Gadus molva. Blennius Grenellus. Blennius anguillarius.

The Haddock, Hake and Pollack are taken at fea, in the fpring and fummer, and being dried, are fold under the denomination of scale fish.

Sculpion,
Bearded Sculpion,
Plaise,
Flounder,
Holibut,

Cottus quadricornis.
Cottus cataphractus?
Pleuronectes platessa.
Pleuronectes flesus.
Pleuronectes Hippoglassus.

The Holibut is the largest fish which is taken for food. When full grown, it exceeds 500lb. in weight; those of 200lb. are frequently brought to market.

Dab, Red Perch, White Perch, Whiting, Sea Perch, Bass, Pleuronectes papillosus.
Perca fluviatalis.
Perca lucioperca?
Perca alburnus.
Perca undulata?
Perca occlata.

The Bass was formerly taken in great plenty, in the river Pascataqua; but by the injudicious use of nets, in the winter, this fishery was almost destroyed. After the mischief was done, a law was made against it; but the bass have never fince resorted to this river in any great numbers. It is said by some, that fish which are spawned in rivers, and descend to the sea, return to those rivers, only where they are spawned. If this principle be true, the breed might be renewed by bringing some of the bass, which are caught in Merrimack river, alive, over the land, to the nearest part of the waters of Pascataqua, a distance not more than twelve miles. This must be done before the spawning season, and might very easily be accomplished,

Shiner,
Chub,
Bream,
Stickle Back,
Skip Jack,
Mackrel,
Pout,
Salmon,

Perca nobilis?
Perca philadelphica.
Perca chrysoptera?
Gasterosteus aculeatus.
Gasterosteus Salatrix.
Scomber scomber.
Silurus Felis.
Salmo Salar?

The SALMON formerly frequented the river Pafcataqua; but the numerous dams built across its branches, have obstructed the course of this valuable sish, and it has, for many years, totally forsaken the river. It still ascends the Saco, Merrimack and Connecticut; in the two last, to their farthest head; in the former, a projecting rock, in the great sall, near Sunday's rocks, forms an insurmountable obstruction; but there is a free course for this sish up the branch called great Ossapy.

SALMON TROUT,

Salmo Trutta.

The Trout is found in all the streams which flow from the mountains, and very near their summits. The same is observed concerning this fish, in other countries. Sir W. Hamilton, describing the Appennines, in Italy, says 'the road follows the windings of the Garigliano, which is a beautiful clear 'trout stream, with a great variety of cascades and 'cataracts.'* And Swinburne, in his account of the Pyrenees says 'trouts are often seen swimming 'down the stream; but if disturbed, retire into the bowels of the mountain.'† In some of the bays of Winipiseogee lake and river, very large trouts are taken with the hook. Those from six to ten pound, are common, and some have been caught of twenty lb. weight.

SMELT, PICKEREL, OF PIKE, Salmo eperlanus. Esox lucius.

Philos. transact. Vol. 67, anno. 1786, page 369. † Travels through Spain, Vol. 2. page 311.

Atherine, Herring, Shad, Atherina Menidia. Clupea harengus. Clupea alosa.

The shad afcend at the same time with the salmon, and are taken frequently in the same nets. The salmon sishery is so regulated by law, that three days only, in the week, are allowed to catch them.

Hard Head, Alewife, Bret, Sucker, Menow. Clupea dura lævi mystax.
Clupea serrata.
Clupea minima.
Cyfirinus Catostomus Forster.
Cyrinus.

There are many other fresh and falt water fishes, not sufficiently known to be arranged.

INSECTS.

Horned Beetle, Carolina Beetle, Dunghill Beetle, Apple Beetle, Golden Beetle,

Stag Beetle, Fluted Beetle,

Water Flea, Fetid Beetle, Lady Fly,

Weevil, Snouted Weevil,

Goat Chaffer,

Firefly,

Skipper,

Glow-worm,

Cantharides,

Scarabaus simson. Scarabæus carolinus. Scarabæus stercorarius. Scarabaus horticola? Scarabæus lanigerus. Several new species, and others that have not been arranged. Lucanus cervus. Lucanus interruptus. Dermestes lardarius. Dermestes typographus. Gyrinus natator. Silfiha vespillo. Coccinella 2-pustalata. Several species. Chrysomela-many species. Bruchus hisi. Curculio quercus.

Many species.

Ceramby x coriarius.

Many species.

Lampyris lucida.

Several species.

Elater oculatus.

Many species.

Cicindela carolina.

One or two other species species.

One or two other species. Buprestris mariana.

Two or three other species.

Water Beetle,

Black Beetle,

Blossom Eater,

Cockroach,
Grasshopper,
Cricket,
Locust,
Mole Cricket,
Froghopper,
Balm Cricket,
Large and small
Water Fly,
Boat Fly,
Bug,
Louse, on cabbages,
Louse, on leaves of trees and
plants,
Bug on plants and trees,

Butterfly,

Night Flutterer, \{
Owl Moth,
Moth, or Miller,
Apple Moth, or Canker Worm,
Dragon Fly, \{
Adder Fly, \}

Oak Apple Fly,
Saw Fly,
Wasp,
Hornet,
Bumble Bee,
Wild Bee,
Aunt,
Black Fly,
Brown Fly,
Horse Fly,
Mosquito,
Stinging Fly,
Snow Flea,
Father Long Legs,
Spider,

Dytiscus piccus.
Dytiscus marginalis.
Dytiscus striatus.
Several other species.
Carabus americanus.
Numerous species.
Moleo nigra.
Staphylinus maxillosus.
Forficula.—Two species.
Blatta americana, (non indigenus.)

Grillus .- Numerous species.

Grillus gryllotalfia.

Cicada .- Many species.

Notonecta. - Several species.

Cinex.—Numerous species. Aphis brassica.

Aphis.—Numerous species.

Chermes.—Many species.

Numerous species,
and several non-descripts.

Sphinx.
Many new species.
Phalana.—Numerous species.
Phalana wauaria?
Libellula.—Several species.

Hemerobius pectinicornis. Several species. Cynips.—Several species, Tenthredo betulæ.

Vespa.—Many species.

Apis.—Several species.

Formica.—Several species.

Musca.-Numerous species,

Tabanus.—Several species.
Culex pipiens.
Conops calcitrans.
Podura nivalis.
Phalangium.—Several species.
Aranca.—Many Species.

Crab,
Lobster,
Shrimp,
Hermit Crab,
Slender Crab,
King Crab, or Horse Shoe,

Cancer .- Many Species.

Monoculus fiolyfihemus. Monoculus fiscinus. Monoculus fiulex. Monoculus quadricornus.

VERMES.

Sea Clam, Squid,

Sea lungs,
Star Fish, or Finger
Fish,
Sea Egg,
Barnacle,
Hog Clam,
Razor Shell Clam,
Long Shell Clam,
Oyster,
Muscle,
Cockle,
Limpets,
Sand Shell Clam,
Sea Anemone,

Holothuria phantaphus. Sețiia media. Sepia coligo. Medusa filearis. Asterias Caput Medusa.—Three } or four species. Echinus .- Several species. Lepas anatifera. Mya arenaria. Solen ensis. Solen radiatis. Ostrea---. Mytilus edulis. Nevita littoralis ? Patella fusca. Sabella granulata. Anemone marina locomotiva.

There is a tradition, grounded on a passage in Josselyn's voyage to New-England, and repeated by Gordon, in his geographical grammar, of a scarlet muscle, found in the river Pascataqua, in which is a vein, yielding a fcarlet liquor, which affords an indelible stain to linen. Having made inquiry, I have not heard of this muscle, nor the place (Baker's cove) where it is faid to have been found. Mr. PECK, who is curious in his inquiries into the natural history of the country, has assured me, that the ' fanies of many testaceous marine animals will give the fame tint. There is a species of the buccinum, or white cockle, which is very commonly found on the shore, and not confined to any par-'ticular place, which being broken, and the fanies taken up with a hair pencil, will mark linen with

'a fine and durable crimfon. The colour is observed to vary from its original yellow, to green, blue, purple, and crimfon, which is its ultimate change.

Vast beds of muscles appear in the river at low water, which are never used; but might be taken out, and laid as manure on the adjacent lands.
Of the immense variety of insects, with which

both the land and fea abound, it is impossible to give a particular description. There is an ample range for the curious naturalist, both on the sea shore, in the open land, and in the thick woods; but if he engages earnestly in the pursuit, it may be adviseable to defend himself, after the manner of the Indians, by finearing the exposed parts of his body

with the oyl of the beaver.

The common Black Fly is not a native of the country, but was brought in ships from the West-Indies. The fame may be faid of the Cochroch, which has not yet quitted the maritime towns. The Bumble Bee is undoubtedly a native; but it has been doubted whether the Honey Bee is, or is not. That several species of the honey bee were known in Mexico, before the Spanish invasion, appears from the tribute-rolls, and other historical paintings of that empire; but it is probable that bees were first brought into these northern parts, from Europe. Josselyn is the only writer who mentions them, and this was his opinion, with which tradition concurs. They have multiplied exceedingly, and are frequently found in a wild state, enclosed in the trunks of hollow trees, in all parts of New-Hampshire as far northward as the State is inhabited, which is 44° 40° of north latitude. They chiefly delight in the neighborhood of cultivation, as they derive their principal food from the labors of man.

The Caterpillars lay their eggs on the branches of apple trees, and, being hatched by the warmth of

the spring, they form clusters, and inclose themfelves in a web, whence they iffue forth in quest of food, and destroy the leaves of this and other trees; but the most formidable enemy to the apple tree, is the canker worm. It comes out of the ground early in the spring, and ascends the tree in the shape of a white winged infect, where it deposits its eggs, which, being hatched by the genial warmth of the feafon, are converted into millions of black worms, about an inch in length. These strip the tree of its verdure, and, by the middle of June, it has the appearance of autumn. While engaged in this mif-chief, if the tree be struck or shaken, each worm defcends to the ground by a thread, fpun instantly from its bowels, and afcends, by the fame rout, when the danger is over. By the 21st of June, they disappear; the tree puts forth new leaves, but bears no fruit. The best way of guarding against them, is by putting a circle of warm tar round the trunk of the tree, and renewing it every day, during the time of their afcent; this arrefts and confines them, till they perifh. They were not known in New-Hampshire till about twenty years past, and there are some parts which they have not yet reached. They do not appear every year, but there is no regular interval between their appearances, nor is the cause of the interruption known.

Beside these, there is another species, which comes but once in many years, and destroys the corn and grass, as well as leaves of trees. Their last appearance was in 1770. It was observed that they did not touch the leaves of elder. From observations of this kind, a hint was taken to make use of elder, and especially the dwarf elder, as a means of preserving the seeding leaves of young esculent vegetables, and even the branches of trees, from being destroyed by

CHAP. XI.

Caverns, Stones, Fossils, and Minerals.

THIS chapter must be extremely imperfect, as many parts of the country are yet unexplored; and of those which are known, the knowledge is mostly confined to the surface and its vegetation. Such things however as have occurred, shall be noticed.

Among the many rocky mountains and precipices, fome openings appear, which are generally supposed to be the haunts of bears and rattle snakes; and are rather objects of dread than of curiosity. A particular description of one of these caverns in the township of Chester, by Peter French, an ingenious young gentleman, deceased, shall be given in his own words.

'At about five miles distance from Chester meeting house, and very near the road leading to Concord, is an eminence called rattle snake hill. Its
base is nearly circular, and about half a mile in
diameter. It is very ragged, especially on the
fouthern side; where it is almost perpendicular;
and its summit frowns tremendous, about 400 feet
high. In this side, at the height of ten yards, is
an aperture in the rocks, of about five feet high,
and twenty inches broad; which is the entrance
to what is called the Devil's den; concerning which,
many frightful stories are told, to increase the terrors of the evening, among the children of the
neighbouring villages; and indeed I have observed the eyes of men assume a peculiar brightness,
while recounting the imaginary dangers which

while recounting the imaginary dangers which they had there fortunately escaped.

'This entrance is about fix feet long; it then contracts its height to two feet and a half, and dif-plays its breadth horizontally on the right, fifteen feet; where it is irregularly loft among the contiguous rocks. This form of the cavity continues 'about ten feet; when it fuddenly becomes about 'eight feet high, and three wide; the fides nearly ' perpendicular, continuing thus about nine feet. In ' the midway of which, on the same plane, and near-'ly at right angles on the left, is an aperture of five ' feet high and four wide, which continues ten or 'twelve feet, where it is loft irregularly among the rocks. Opposite to this, on the right, lies a spa-'cious chamber, parallel to the faid plane; elevated 'about four feet, fifteen or twenty feet square, and 'about three feet high; floored and ceiled by a reg-'ular rock, from the upper part of which are de-' pendent many excrescences, nearly in the form of a pear, fome of which are more than an inch long; but there is a much greater number of every pof-'fible inferior fize; these are easily separable from ' the rock, and feveral of them are deposited in the 'museum at Cambridge, where they are shewn for petrified water. Their colour and consistence are those of a common stone; but when approached in the cave with a flambeau, they throw about a ' fparkling lustre of almost every hue. This appear-'ance is caused by a large drop of water, which nangs about the end of each; and when the echo of its fall has reverberated round the vault, anothbegins to kindle in fuccession.

'At the end of the above mentioned nine feet, is a perpendicular descent of about four feet; where the passage, becoming not more than eighteen inches wide, but at least fifteen feet high, and still nearly perpendicular, bends gently to the right, in an arch of a very large circle, for about thirty feet;

where eight or nine feet of the height falls into breadth, and all in feven or eight feet more is loft

' among the rocks, in inconfiderable chinks.

'The general direction of this cave is nearly north, 'and upon an afcent of about three degrees. The 'cavity is terminated by rocks, on all fides; fave that the above mentioned thirty feet has a gravelly bottom, at the farther end of which rifes a small ' rivulet, strongly impregnated with sulphur. This 'rivulet increases imperceptibly in its descent, along ' the thirty feet; when it falls fuddenly into a trans-'verse chink, about three inches wide, which receives 'it perpendicularly about ten feet; when the little

' fubterraneous cascade is intercepted by some thin

'lip of a rock, and thrown about in quite a merry

'strain, for fuch a folitary mansion.

The rocks which wall this narrow passage, are cased with a shell of a reddish colour, about half 'an inch thick; which is eafily feparable from the rock, in flakes as large as a man's hand. These ' flakes emit a strong scent of fulphur, when thrown ' into the fire; and this circumstance has given rife to a conjecture, that fubterraneous fires have for-' merly raged here; but whatever truth there may be in this opinion, the cave is now exceedingly ' cold, and a more gloomy fituation is fcarcely in-'aginable.'

In the town of Durham there is a rock, which is computed to weigh fixty or feventy tons. It lies fo exactly poifed on another rock, as to be eafily moved by one finger. It is on the top of a hill, and it's fituation appears to be natural. Many other fingular appearances among the rocks and mountains attract the attention of the curious, and ferve as ob-

jects of amazement to the vulgar.

Of the different kinds of Earths and Clays, which

are found in New-Hampshire, it would be endless to give an account. The towns of Exeter, Newmarket, Durham and Dover, abound in clays. The same may be said of several towns on Connecticut river. In many of the new townships, clay does not appear till after the earth has been opened and cultivated. Marles, though found in great plenty in some places, are seldom used. Immense treasures of this precious manure will be reserved for suture generations.

Red and yellow ochres are found in Sommerfworth, Chesterfield, Rindge and Jaffrey. It is obfervable that in feveral places, a stratum of yellow is found under one of red ochre, without any intervening substance. These have been purified and

used with success in painting.

At Orford on Connecticut river, is found the Soap-Rock, (Steatites). It has the property of fuller's earth, in cleanfing cloths. It is of a confistence between earth and stone. It may be sawn or cut with carpenter's tools, into any form whatever. To determine its capacity of enduring heat, I carefully measured and weighed a piece of it; and having kept it for one hour, in a glowing sire of coals, and cooled it gradually, I found its size was not in the least diminished. It lost a fixty-sisth part of its weight. It was evidently cracked, and was easily broken, by the hand. It was equally soft as before, and as capable of being cut or scraped. Its colour was changed from a light grey, to a micaceous yellow. The piece on which this experiment was made, weighed between seven and eight ounces.

In various parts of the country is found that transparent substance, which is commonly called Ising-Glass, (Lapis specularis.) It is a species of Talc; and is found adhering to rocks of white or yellow

quartz, and lying in laminæ, like sheets of paper. The most of it is white, some is yellow, and some has a purple hue. The largest leaves of this curious substance are found in a mountain, in the township of Grafton, about twenty miles eastward of Dartmouth college. It was first discovered in the following manner. A hunter took shelter for the night in a cavern of the mountain; and in the morning found himfelf furrounded with this transparent substance; a large leaf of which he fastened to the branch of a tree, near the cave, as a mark by which he might again find the place. This happened during the late war, when window-glass could not be imported. The fcarcity of that convenient article brought the talc into repute. Many perfons employed their time in blowing the rocks, feparating the laminæ, cutting them into fquares, and vending them about the country. This fubstance is particularly valuable for the windows of ships, as it is not brittle but elaftic, and will stand the explosion of cannon. It is alfo used to cover miniature paintings, and to preserve minute objects for the microscope. The disadvantage of it for windows is, that it contracts dust, and is not easily cleaned; but for lanterns, it is preferable to glass.

Crystal and Chrystalline Spars have been found at Northwood, Rindge and Conway. They are of various fizes, generally hexagonal, and terminating in a point. The largest which has fallen under my knowledge, was found at Conway. It was fix inches in length, eight in circumference, and weighed thirty two ounces; but it was not throughout pellucid.

Allum ore has been found at Barrington, Orford and Jaffrey. Vitriol at Jaffrey, Brentwood and Rindge. It is generally combined in the fame stone with Sulphur. Those stones which I have seen are

shelly, and the vitriol exudes at the fiffures. I have one, which has been kept perfectly dry, for above twelve years; and it produces the white efflorescence as plentifully as ever. It was taken from Lebanon, in the county of York; where there is an immense quantity.

Free-stone has been discovered at Hanover and Piermont. At Orford are many Slate Rocks, and a grey stone, which may be wrought to great perfection, either for building or for Mill-Stones. It is faid to be nearly equal to the imported burr stones;

and is in great demand.

Iron Ore is found in many places; most commonly in fwamps. It generally discovers itself by the colour and taste of the water, which runs through it; and there are many fprings in almost every part of the country which are impregnated in different degrees with it. Black Lead (plumbago) is found in large quantities about the grand Monadnock, in the township of Jaffrey. In the same neighborhood, fome fmall fpecimens of Copper and Lead have been feen. There is also an appearance of copper in some rocks at Orford; but no metal except iron has been wrought to any advantage.

Fosfil Shells have been found near Lamprey river, in Newmarket, at the depth of feventeen feet; and in fuch a fituation as that the bed of the river could never have been there. The shells were of oysters, muscles and clams, intermixed. Clam shells have also been discovered at the depth of twenty feet, in the neighborhood of Dartmouth college.

Fosfil Trees are fometimes found in the intervale

lands, adjoining the great rivers.

Mineralogy is a branch of science which is but little cultivated. Men of genius and science have not leifure to pursue objects from which present advantages cannot be drawn. The disappointments which have attended some expensive attempts; the air of mystery thrown over the subject by ignorant pretenders; and the facility with which every mineral may be imported from abroad, have discouraged inquiries. But from the specimens which have appeared, there can be no doubt of the existence of mineral and fossil treasures, in the search of which, future generations will find employment.

CHAP. XII.

Bescription of the harbour and river of Pascataqua.

THIS is the only feaport in New-Hampfhire; its latitude is 43° 5′N. and its longitude 70° 41′W. from the royal observatory at Greenwich. It is known to feamen by the following marks. Agamenticus, a remarkable mountain in the county of York, lies four leagues due north. Pigeon hill, on Cape Anne, bears due fouth, distant ten leagues; and the highest of the Isles of shoals bears S. E. by S. distant three leagues from the entrance of the harbour.

In the middle of the harbour's mouth, lies Great-Island, on which the town of Newcastle is built. On the N. E. point of this island a light house was erected in 1771, at the expence of the province; but it is now ceded to the United States. The directions for entering the harbour are thefe: 'Ships coming from the East, should keep in twelve fathom, till the light bears N. half a point E. or W. 'distant three miles; (to avoid a ledge of rocks 'which lies off the mouth of the harbour;) then bear away for the light, keeping the western shore on board, and coming no nearer that shore than the depth of nine fathoms; giving the light a proper birth, and standing over to the northern shore ' of the river; where they may anchor in nine fathoms, abreast of Sparhawk's point. Ships coming 'from the fouthward, should observe the same di-'rections, respecting the light, and keep in nine fathoms on the western shore.'

Between the north fide of Great-Island and Kittery shore, is the main entrance, about a mile wide,

nine and ten fathons deep. The anchorage is good; the fhore is lined with rocks; the harbour is land-locked on all fides, and perfectly fafe. The tides rife from ten to fourteen feet. The other entrance on the fouth fide of Great-Island, is called Little Harbour; the water here is shoal, and the bottom

fandy.

There are feveral islands in the river, between which and the shores are channels for small vessels and boats. Between the upper end of Great-Island, and the town of Portsmouth, on the southern side of the river, is a broad, deep, still water called the Pool; where the largest ships may lie very conveniently and securely. This was the usual station for the mast-ships, of which seven have been loading at one time. In this place the Astræa ship of war of twenty guns, was burnt, on a severely cold morning, January 17, 1744. She had been captured from the Spaniards at Porto Bello; and was taking in a load of naval stores, for the British sleet at Jamaica, when this accident happened.

The main channel lies between Peirce's island and Seavey's; on each of which, batteries of cannon were planted, and entrenchments formed in 1775. Here the stream is contracted to a very narrow passage, and the tide is extremely rapid; but the water is deep, with a bold rocky shore on each side. The rapidity of the current prevents the river from freez-

ing in the feverest winters.

The town of Portsmouth lies about two miles from the sea, on the south shore of the river. The number of dwelling houses at present is about 640, and of other buildings 620. The public buildings are three Congregational churches, one Episcopal, one Universalist, a State-house, a Market-house, four School-houses, and a Work-house. The town has convenient wharves, and the anchorage before it is good. There is depth of water fufficient for the largest ships; and there are such natural advantages, for all the purposes of building and docking them, and the harbour is fo capable of defence, against any sudden attack by fea, that it might be made a very fafe

and commodious port for a navy.

Ships of war have been built here, both in former and latter times, viz. the Faulkland of 54 guns, in 1690; the Bedford-galley, of 32, in 1696; the America, of 40, in 1749; the Raleigh, of 32, in 1776; the Ranger, of 18, in 1777; and a ship of 74 guns, called the America, was launched the 5th of November, 1782, and prefented to the King of France, by the Congress of the United States.

Three leagues from the mouth of the harbour lie the Isles of Shoals, which are seven in number. On Star-island the town of Gosport is built, which belongs to New-Hampshire. The dividing line runs between that and the next island to the northward, which belongs to Massachusetts. Here is a good road, with moorings; and an artificial dock has been constructed with great labour and expense, by Mr. Haley, for fishing vessels. Ships sometimes take shelter here in bad weather, but it is not then safe for those of large bulk. These islands, being of folid rock, with but little earth, are incapable of any improvement by tillage, though they afford fome pasturage and gardens. The inhabitants have formerly carried on the cod fishery to great advantage; but it has been for fome years declining. Saltworks have been erected on one of the islands, which have yielded falt of a fuperior quality, excellently adapted to the curing of fish.

The Pafcataqua is the only large river whose whole course is in New-Hampshire. Its head is a pond in the N. E. corner of the town of Wakefield, and its general course thence, to the sea, is S. S. E.

about 40 miles. It divides New-Hampshire from York county, in Massachusetts, and is called Salmon-fall river, from its head, to the lower falls at Berwick; where it assumes the name of Newichawannock, which it bears till it meets with Cochecho river, which comes from Dover, when both run together in one channel, to Hilton's point, where the western branch meets it. From this junction to the fea, the river is fo rapid that it never freezes; the distance is seven miles, and the course generally from S. to S. E. The western branch is formed by Swamfcot river which comes from Exeter, Winnicot river which comes through Greenland, and Lamprey river which divides Newmarket from Durham; these empty into a bay, four miles wide, called the Great Bay. The water in its further progress is contracted into a lesser bay, and then it receives Oyster river, which runs through Durham, and Back-river, which comes from Dover, and at length meets with the main stream at Hilton's point. The tide rifes into all these bays and branches, as far as the lower falls in each river, and forms a most rapid current, especially at the season of the freshets, when the ebb continues about two hours longer than the flood; and were it not for the numerous eddies, formed by the indentings of the shore, the ferries would then be impassable.

At the lower falls in the feveral branches of the river, are landing places, whence lumber and other country produce is transported, and vessels or boats from below discharge their lading: So that in each river there is a convenient trading place, not more than twelve or fifteen miles distant from Portsmouth, with which there is constant communication by every tide. Thus the river, from its form, and the situation of its branches, is extremely favorable to the purposes of navigation and commerce.

At Dover is an high neck of land between the main branch of Pascataqua and Back river, about two miles long, and half a mile wide, rising gently along a fine road, and declining on each fide like a ship's deck. It commands an extensive and variegated prospect of the rivers, bays, adjacent shores, and distant mountains. It has often been admired by travellers as an elegant situation for a city, and by military gentlemen for a fortress. The first settlers pitched here, but the trade has long since been removed to Cochecho-falls, about four miles farther up; and this beautiful spot is almost deserted of inhabitants.

CHAP. XIII.

Trade, Navigation, Fishery and Manufactures.

THE first species of traffic which was known in this country was the fur trade, with the Indians; the next object was fish; and the third was lumber.

Formerly the banks of the river Pascataqua were covered with fine timber, which was cut or split into any form, and easily conveyed on board ships. The first settlers erected saw-mills, on the branches of the river; and a great trade in lumber was driven for many years. When the neighbouring lands were cleared of the first growth, it was supposed that the lumber trade would decline; but it was, and is still kept up by many of the people, and is drawn from the distance of thirty or forty miles, to the heads of the tide, in the branches of the river. It is then conveyed in rafts, or on board large gondolas, to the ships, in different parts of the river, or to the wharves at Portsmouth.

The mast trade was formerly confined to England; all white pine trees of certain dimensions being deemed the King's property. The contractors and agents made large fortunes by this traffic; but the labourers who spent their time in the woods, and were supplied with provision and clothing for themselves and their families, anticipated their earnings, and were generally kept in a state of poverty and dependance.

Ship building has always been a confiderable branch of bufinefs. European traders often came hither to build fhips, which they could do much cheaper than at home, by the profit made on the goods, which they brought with them. Our own merchants also built ships of two and three hundred tons; which were employed in voyages, to the British fugar islands, with a lading of lumber, fish, oil and live stock. The cargo was fold, and the produce of the island was fent hither in smaller vessels, for home confumption; whilst the ships took a lading of fugars for England, where they were fold: and with the freight a remittance (often unprofitable) was made to the merchants of England, for goods imported on credit the preceding year. Other veffels laden with timber and spars proceeded directly for the British ports, and were fold with their cargoes, for the fame purpose. The coasting trade at the Southward, was an exchange of West-India commodities for corn, rice, flour, pork, and naval stores; a part of which being re-exported to Newfoundland and Nova-Scotia, produced bills on England for remittance. This was the common routine of trade, before the late revolution; by which the profit of our labor centered with the merchants of England.

The foreign trade, as diftinguished from national, was very inconsiderable. Two or three vessels in a year would go to the free ports of the French and Dutch West-Indies with cargoes of lumber, fish oil and provisions, and bring home molasses to be distilled into rum, in the only distilled in New-Hampshire. One vessel in a year would go to the Azores or the Canaries with pipe staves, fish, and other provisions, and return with a cargo of wine, the balance of which was paid in cash or bills, and sometimes a ship which had been to England, would get a freight to Lisbon or Cadiz, and return with falt and fruit. This was the sum total of our foreign commerce.*

* Port of Pascataqua.

Foreign entries in the following years.
1764—112

Foreign clearances in the following years.

1764——150

Since the revolution, the trade to the British West Indies has ceased; but the French and Dutch ports in that quarter, are frequented by our lumber vessels; though the restrictions laid upon certain articles of their produce, render the voyages thither less profitable.

For feveral years fucceeding the late war, the partial imposts and impolitic restrictions of our own government, prevented foreign vessels from loading in our port, and a want of capital or of enterprise in the merchants of Pascataqua, has hitherto kept them from exploring the new sources of commerce which are opened to America by her independence, and which the merchants of other American ports are feeking with avidity. Since the operation of our general government, an equal system of impost has been introduced; and trade is regulated so as to serve the general interest of the union. The officers of the customs are appointed by the Executive of the United States; and the revenue arising from trade and navigation, is applied to national purposes.

That fuch an alteration was wife and falutary, may be evident from confidering the fituation of New-Hampshire, as well as of some other States in

the union.

New-Hampshire is feated in the bosom of Massachusetts with a narrow strip of sea coast, and one

1765 115	1765199
1766-113	1766136
1767-112	1767170
1768124	1768——183
1769-128	1769——151
1770-114	1770-142
1771-104	1771135
1772108	1772——136
1773 92	9 months.

N. B. By foreign Entries and clearances, are meant all, except the coasting and fishing vessels.

From Eleazer Rassell, Esq. Naval-Officer.

only port. Her inland country extends fo widely as to cover a great part of the neighbouring States, and render a commercial connexion with them abfolutely necessary. All the towns which are fituate on the fouthern, and many of those on the western borders of New-Hampshire, find it more convenient to carry their produce to market, either at Newbury-port, Salem, Boston or Hartford. The towns on Saco and the northern parts of Connecticut river will necessarily communicate with the ports, in the eastern division of Massachusetts. The lumber which is cut on the upper part of the Merrimack, is rafted down that river, and is exported from Newbury-port; whilst that which is cut on Connecticut river is carried down to Hartford. The greater part of New-Hampshire is by nature cut off from any commercial intercourse with the only port in the State. Lumber, being a bulky article, must be transported to the most convenient landing. Waggons or fleys carrying pot and pearl ashes, pork, beef, butter, cheefe, flax and other lefs bulky commodities, and droves of cattle, sheep and swine, will always be conveyed to those places where the vender can find the most advantageous market.

For these reasons it never was in the power of the government of New-Hampshire, either before or since the revolution, to reap the proper advantage, or even ascertain the value of its own productions. When the late Governor Wentworth was called upon by the British Ministry for an account of the Trade, nett produce and staple commodities, of the then Province, he was obliged to make an exception of the articles 'carried out by land, it being impracticable to ascertain their value.' The same inconvenience was experienced during the continuance of our late partial imposts; and there could be no proper remedy for it, but the union of the

States under one general government, with respect to trade and revenue.

To attempt a particular detail of the number and value of articles of commerce produced in New-Hampshire, and exported from the various ports of Massachusetts and Connecticut, is impracticable. To confine the detail to the port of Pascataqua alone, gives but an impersect idea of the produce of the whole State; besides, a part of what is exported thence is produced in the adjoining county of York, which belongs to Massachusetts. Such accounts, however, as have been obtained from the custom-house, and from the merchants of Portsmouth, are exhibited at the end of this chapter.

The staple commodities of New-Hampshire may be reduced to the following articles, viz. ships, lumber, provisions, sish, horses, pot and pearl ashes, and

flax-feed.

Ships are built in all the towns contiguous to the river Pascataqua, and its branches. They are generally set up on the banks of the river, but sometimes vessels of an hundreds tons and upwards, have been built at the distance of one or two miles from the water, and drawn on strong sledges of timber, on the snow, by teams of two hundred oxen, and placed on the ice of the rivers so as to float in the spring. They have also been built at the distance of seven or eight miles; then taken to pieces, and conveyed in common team loads to the sea. Fishing schooners and whale-boats are often built at the distance of two or three miles from the water.

There are no workmen more capable of constructing good ships, than the carpenters of New-Hampthire. But the goodness of a ship ever did and will depend on the quality of the materials, the nature and promptitude of the pay, and the constant atten-

tion of the person whose interest it is that the ship

should be good.

The number of ships built in the river in 1790, was eight. In 1791, twenty. The price of building is generally from eleven to twelve dollars per ton for the carpenters' work, and less than one third more for iron and other work.

The number of ships and other vessels belonging to the port of Pascataqua in 1791, is as follows:

Above 100 tons, 33

Under 100 tons, 50

83

The white pine of the forest is the strongest and most durable timber which America affords for masts. It is often advanced by Europeans, that the pines of Norway exceed those of America in strength. This is acknowledged to be true whilst the Norway wood retains its natural juices; but these being soon exhausted by the heat and dryness of the air, leave the wood less firm, and a decay commences much sooner than in the white pine of America. The Norway pine begins to decay in five or six years; but the American, with proper care to defend the mast head from moisture, will last unimpaired for twenty years.

The British navy for eighty years before the late war, received its masts wholly from America; which is a proof that our pines are preferable to those of Norway. Several of the French ships of war which were much damaged, in the naval engagement of 1782, in the West-Indies, came hither for new masts; and have had sufficient opportunity to try the strength of our wood. When proper persons are employed, and sufficient time is given to provide suitable materials, the forest of America can supply any demands which may be made of timber, either

for building, for naval stores or cabinet work. But a cargo prepared in an injudicious, hasty or fraudulent manner, may give a bad name to the American timber in foreign markets; and prejudice whole

nations against us.

Contracts for timber should always be made so as to give time to look for the requisite sticks, and cut them in the proper season of the year. If the trees were girdled and left to die standing, the timber would be much superior to any which is cut whilst alive. Trees cut in the sap should be stripped of their bark as soon as possible; or they will be damaged by the worm. But after all the care and attention which can be bestowed on them, many trees which are intended for masts on the strict examination which they must pass, prove unsit for service, and sometimes the labour of a whole season is lost.

It is therefore accounted more profitable to get the fmaller species of lumber, and especially those which do not interfere with husbandry; which, after all, is much preferable to the lumber business, both in point of gain, contentment and morals.

Nothing is more convincing than fact and experiment. During the late war, the trade in lumber was suspended, and the people were obliged to attend to husbandry. They were then able to export large quantities of corn, though for several years before the war, it was imported for necessary consumption. The following statement obtained from the naval office, will place this matter in its just view.

Corn imported into the ziver Pascataqua.	Corn exported from the river Pascataqua.
Bushels.	Bushels.
1765 — 6498	1776 —— 2510
1769 — 4097	1777 — 1915
1770 — 16587	1778 — 5306
1772 — 4096	1779 — 3097

		1780	 6711
	4)31278	1781	<i>—— 55</i> 87
Average ? p. ann.	$7819\frac{1}{2}$		6)25126
7	Ave	erage per ann.	$4187\frac{2}{3}$

To the above account of exports the following note is added by the naval officer. 'It is likely near' half as much has been fmuggled out of the State and not accounted for.'* It must also be remembered that great quantities were carried out by land into the eastern countries of Massachusetts. If these be added to the list of exports, the average will come very little short of the average of corn imported before the war; and thus it is demonstrable that even those towns adjoining the river, in which lumbering was formerly the chief employment, and into which much corn was imported, are fully capable of raising, not only a sufficiency of provisions for their own support, but a surplus for exportation, equal to what they formerly imported, and paid for, in the hard, dangerous and unprofitable labour which always attends the getting of lumber.

At the close of the war the high price of lumber induced many people to resume their old employments; but there has been so much sluctuation in the demand for that article of late, that no dependance can be placed on it, and for this reason as well as others, husbandry is daily growing more into use. A careful inspection of provisions salted for exportation, would tend to establish the character of them in foreign ports, and greatly encourage the labours

of the husbandman.

The cod fishery is carried on either by boats or schooners. The boats, in the winter season, go out

^{*} The smuggled corn, during the war, went chiefly to Nova-Scotia; the country, which by Lord Sheffield's calculation, was to supply the West-Indies with provisions!

in the morning and return at night, in the fpring and fummer they do not return till they are filled. The Schooners make three trips to the Banks in a feafon. The first, or spring fare, produces large thick fish, which after being properly salted and dried, is kept alternately above and under ground, till it becomes so mellow as to be denominated dumb fish. This fish, when boiled, is red, and is eaten generally on Saturdays, at the best tables in New-England.

The fish of the summer and fall fares is divided into two forts, the one called merchantable, and the other Jamaica fish. These forts are white, thin, and less firm. The Jamaica fish is the smallest, thinnest, and most broken. The former is exported to

Europe, the latter to the West-India Islands.

The places where the cod fishery is chiefly attended to are the Isles of Shoals, Newcastle, Rye and Hampton; but all the towns adjoining the river are more or less concerned in it. The boats employed in this fishery are of that light and swift kind called whale-boats. They are rowed either with two or four oars, and steered with another; and being equally sharp at each end, move with the utmost celerity on the surface of the ocean.

Schooners are generally from twenty to fifty tons, and carry fix or feven men, and one or two boys. When they make a tolerable fare, they bring home five or fix hundred quintals of fish, split, salted, and stowed in bulk. At their arrival, the fish is rinsed in falt water, and spread on hurdles, composed of brush, and raised on stakes, about three or four feet from the ground; these are called slakes. Here the fish is dried in clear weather, and in soul weather it is put under cover. It ought never to be wet, from the time that it is first spread, till it is boiled for the table.

Besides the sleshy parts of the cod, its liver is preferved in casks, and boiled down to oyl, which is used by curriers of leather. The tongues and sounds are pickled in small kegs, and make a luxurious, viscid food. The heads are fat and juicy; but most of those which are caught at sea are thrown away. Of those which are caught near home, the greater

part become the food of fwine.

The fishery has not of late years been prosecuted with the same spirit as formerly. Fifty or fixty years ago, the shores of the rivers, creeks and islands were covered with fish slakes; and seven or eight ships were loaded annually for Spain and Portugal; besides what was carried to the West-Indies. Afterward they found it more convenient to make the sish at Canseau; which was nearer to the banks. It was continued there to great advantage till 1744, when it was broken up by the French war. After the peace it revived, but not in so great a degree as before. Fish was frequently cured in the summer on the eastern shores and islands, and in spring and fall, at home. Previously to the late revolution, the greater part of remittances to Europe was made by the sisheries; but it has not yet recovered from the shock which it received by the war with Britain.

It is, however, in the power of the Americans to make more advantage of the cod fishery than any of the European nations. We can fit out vessels at less expense, and by reason of the westerly winds, which prevail on our coasts, in February and March, they can go to the banks earlier in the season, than the Europeans, and take the best fish. We can dry it in a clearer air, than the foggy shores of Newfoundland and Nova-Scotia. We can supply every necessary from among ourselves; vessels, spars, sails, cordage, anchors, lines, hooks and provisions. Salt can be imported from abroad cheaper than it can be made

at home; if it be not too much loaded with duties. Men can always be had to go on shares, which is by far the most prositable method, both to the employers and the sishermen. The sishing banks are an inexhaustable source of wealth; and the sishing business is a most excellent nursery for seamen. It therefore deserves every encouragement and indulgence from an enlightened national legislature.

The manufacture of pot and pearl ashes affords a valuable article of exportation. In the new townships, where vast quantities of wood are burnt on the land, the ashes are collected and boiled, and the salts are conveyed to certain places, where works are erected, and the manufacture is perfected. This, like many other of our articles of exportation, has suffered much in its reputation, from an injudicious, or fraudulent survey. It is a lesson which ought to be deeply engraven on the minds of Legislators as well as Manufacturers and Merchants, that honesty at home is the only foundation for credit abroad.

An attempt has been made to manufacture fail cloth; and the proprietor of the works, Thomas Odiorne, Efq. of Exeter, has received fome small encouragement from the Legislature of the State. Such a bounty as is allowed in Massachusetts would give a spring to this business, and encourage the erection

of other works of the fame kind.

The manufacture of iron both in forges and furnaces might be rendered vaftly more profitable than it is at prefent. This necessary metal instead of being imported might become an article of exportation.

Flaxfeed is produced in large quantities. Some of it is manufactured into oil; and fome is exported.

The manufacture of leather and shoes is not for extensive as to produce articles of exportation; but may be considered among the domestic manufactures.

In most of our country towns considerable quantities of tow-cloth are made, some of which is exported to the southern States, to clothe the Negroes,

who labour on the plantations.

The manufacture of bricks and potter's ware may be extended to any degree. Several species of clay being found in great abundance, in the towns, at the heads of the several branches of the river Pascataqua; in places which lie very convenient for water carriage. Bricks might be carried as ballast in every vessel which goes to ports where they are saleable. In this article, however, as well as many others, a regulation is needed; most of the bricks which are made are descient in size; and much of the clay which is used in making them is not sufficiently mellowed by the frost of winter, or by the labour of the artisticer.

TABLE of Exportation from the port of Pascataqua, from October 1, 1789, to October, 1, 1791.

Articles exported	To I	Europe. V	V.IndN	r.Sco	.Afri	ca. Tot.
1000 fect of Pine Boards	3.	6247	11622	96	69	18034
Do. feet of oak plank	1	378	26			404
Do. staves and heading		1317	1608	44		2969
Do. clapboards		2	19			21
Do. shingles			2689			2689
Do. hoops			791	7		861
Feet of oar rafters		47000	950			47950
Tons of pine timber		$88\frac{1}{2}$	86			1741
Do. oak timber ·		251	20			271
Frames of houses			12			12
Pine masts		41	4			45
Spruce spars		13	72			85
Shook hogsheads			2079			2079
Waggons			2			2
Pairs of cart wheels			14			14
Sets of yokes and bows			28			28
Boats			30			30
Handspikes		80				80
Quintals of dry Fish		. 250	,	ŀ		26,457
Barrels of pickled fish			501			501
Do. Whale oil			120			120
Do. Tar		1613				1673
Casks of Flaxseed		1798				1798
Barrels of beef			2775	2		2777
Do. pork			9	- 1		10
Do. rice					2	2
Bushels of Indian corn			391	-	2000	2391
Oxen and cows			577	33		610
Horses			207	2		209
Sheep		į	261		1.40	490
Gallons of N. E. rum			1	150	1449	1599
Do. Madeira wine			845			845
Thousands of bricks		001	129			129
Tons of pot ash		381				881
Do. pearl ash		301	00			$30\frac{1}{2}$
Boxes of candles			28			28

Total value of exportation for two years

^{} 296,839} dollars 51 cents.

TABLE of Importation into the port of Pascataqua, from October 1, 1789, to October 1, 1791.

Articles imported from	Europe.	W.Indies. N	Scotia. Total.
Gallons of rum		138,911	138,911
Ditto Gin		221	$22\frac{1}{2}$
Ditto Molasses		270,785	270,785
Ditto wine?			4721
from Madeira			4/21
Ditto Porter	457		457
lbs of unrefined sugar		546,648	546,648
Ditto loaf sugar			77 77
Ditto coffee		68,633	68,633
Ditto cotton		17,564	17,564
Ditto cocoa		27,944	27,944
Ditto cheese	1056		1056
Ditto tea	2696	86	2782
Ditto twine	2204		2204
Ditto nails	16890		16,890
Hundreds of cordage	17,1,7		17,1,7
Ditto hemp	940		940
Bushels of salt	(part)	(part)	98,336
Ditto sea coal	3131		3131
lbs of steel unwrought	16527	1	16,527
Ditto bar and sheet lead	4336	1.	4336
Grindstones			ew not
		-4306	rtained) l

N. B. "What comes coast ways from any of the United States cannot be ascertained; as no regular entries are made where only the produce of the United States is on board; except accompanied with more han two hundred dollars value of foreign articles. The value of imported articles is generally governed by the Boston market."

PRICES CURRENT at Pascataqua, A. D. 1791.

	Pin	e Masts	Spru	ce and	Pine Yards	*	Pin	e Boy	sprits hewn
		hewn	he	ewn in	8 square.		in	8 sq	nare.
	incl	les price			s price.			nches	
	36	£ 147		24	£ 34			38	£ 64
	35	117		23	27			37	56
	34	96	E	22	23			36	48
	33	75	2	21	50			35	44
	32	60		20	16		Ì	34	42
	31	47	24	19	12			33	32
	30	38		18	9-10			32	31
	29 28	30		17	8			31	27
	28	25		16	6		1	30	21
	27	20	13	15	1-10			29	16
	26	17	国 こ	14	1-8			28	9
	25	14	Þ	13	1-6			27	7
	24	12	×<	12	1-4	į.		26	6
	23	10	ı,	11	1- 2			25	
	22	9	S	10	1-			and a	llbelow
	21	8		9	-18			at 3s	p. inch.
	20	6		_					
aı	nd al	l below 2	0 at 6	s per	inch.				
-	-								

TIMBER.		Oak ship timber measured 2 1s per
Quality, dimensions and pr	rice.	at the end of the arm. \ inch.
		Ash timber per cord 24s
Oak from 15 to 50 feet in	length	Lath wood per cord • 248
and from 10 to 20 inches each forty cubic feet	square,	BOARDS, PLANK AND JOIST.
(white 20s	to 24s	Each superficial square foot, one inch
Oak { red black 16s	12s	in thickness is called a foot.
black 16s	s to 18s	Pine per 1000 feet 36s to 42s
Maple	203	Hemlock generally 2s less.
Beech	16s	N. B. The price of these articles is
Black birch 169	to 18s	frequently varying.
White pine 12s	to 13s	Oak plank per ton £3

PRICES CURRENT Continued.

Other species of Lumber.		ARTICLES AND	PRICE.
Quality, and price.		Fish per Jamaica quintal Scale	18s
	—]	Jamaica	13 to 14s
Clapboards per thousand	48s	quintal Scale	10s
	10s	Pork per barrel	£ 3 12s
Hoops ditto		Beef ditto	£22s
White oak pipe staves per	,	Corn per bushel	3s
thousand £9		Rye ditto	3s 6
Ditto hogshead £ 4		Barley ditto	45
Ditto barrel ditto £ 2		Flax seed ditto	3s to 4s
Red oak hogshead ditto £ 2		Oxen, each	£ 4 10s
Ditto barrel ditto £ 1	10s	Cows	£ 2 83
Anchor-stocks per inch at		Horses	£ 6 to 30
diameter of the nut	ls	Sheep	6s to 9s
Handspikes in the rough	1s	Bricks per thousand	20s
	65	Cider per barrel	58
Shook hhds { white oak red ditto	Ss	4	nonth 7 dolls.
Spruce spars per inch	4d		
Oar rafters per 1000 feet & 4		per month	1 dol.

TABLE of ENTRIES at the port of Pascataqua from October 1, 1789, to October 1, 1791.

France 1 3 4 732 732
French West Indies 12 42 13 5 72 9402 264 9666
St. Peter's and Miquelon 5 5 192 34 226
England 12 15 27 4119 570 4689
Scotland 4 4 464 464
Ireland 1 4 5 859 859 British West Indies 6 2 1 1 10 2005 2005
Nova Scotia 1 14 15 856 856
Portugal 1 293 293
Portuguese Islands
Holland and Plantations 15 9 1 25 2996 2996
Denmark and Islands
Africa
Coasting & cod fishery 40 10 50 1166 1166
Total 34 87 84 18 223 207 19 298 3431 24448
Total 34 87 84 18 223 207 19 298 3431 24448

TABLE of CLEARANCES at the port of Pascataqua; from October 1, 1789, to October 1, 1791.

	Ships and Snows	Brigantines	Schooners	Sloops	Total of vessels	American	French ditto	British ditto	Portuguse ditto	Total of tonnage
France French West Indies St. Peter's and Miquelon England Scotland Ireland British West Indies Nova Scotia	16	4 3	39 8 1 4 12	10	136 9 42 4 4 16 12	16616 428 6725 616 666	34			16880 462 7166 616 666 3134 502
Portugal Portuguese Islands Holland and Plantations Denmark and Islands Africa Coasting and cod fishery	1	2	1 40	10	1 2 1 50	233 110 1166			162	162 233 110 1166
Total	43	107	105	22	277	26560	298	4077	162	31097

TABLE of the VALUE of SILVER in the currency of Newhampshire, since the beginning of the present century.

Silver per oz.	Silver per oz.	Silver per oz.	DOLLARS.
years. value.	years. value.	years. value.	years. value.
s d	s d	s d	8 d
1700 10	1732 \$19 6	(35	1751 51 6
1704 7	20 6	1743 \ 36	1752 55
1705 10	(21	37	1753 57
1710 8	1500 25	(37	1754 60
1711 6 4	$ 1733 < \frac{25}{26}$	38	1755 70
1712 8 6	27	40	C 80
1713 8 6	24	1746	1756 90
1714 9	10-	48	100
1715 9	1754 \ 26	50	(100
1716 10	27	(58	1757 to
1717 10	1735 27 6	55	110
1718 11	1 COT 6	1747< 58	1758 120
1719 12	1736 326 6	60	1759 120
1720 12 4	(90 6	58	1760 120
	1737 } 27	C58	(120
1721 \$ 12 6	COM	56	1761 10
213 6	1738 327 6	55	1762 130
1722 \$ 14	29	54	1763 &
(14 0	1739 29 6	1748 \ 55	140
1723 \$ 14 6	29	56	1764 120
∫ iį́3i o	Č28 6	58	1765
1724 \$ 16	00	56	to < 6
110 0	$ 1740 < \frac{29}{28}$	C56	1776
1725 \$ 16	29	60	1110 4
1123 { 15	100 6	1749 \ 60	
1726 16	$1741 \begin{cases} 28 & 0 \\ 28 & 0 \end{cases}$	58	
1727	(28	(51 6	
	0 0 0	1750 350	ł
1728 5 16 6	$ 1742 \frac{27}{28}$		
217	29	54	
1729 \$ 19	F20		
3 19 6	1743		
$1730 \hat{S}_{21}^{20}$	(32		
721	1744 33		,
1731 \$ 18 6	34		
1131 319	(34		
,			

TABLE of the VALUE of SILVER continued.

Scale of depreciation of one hundred dollars.								
yeurs.	months equa		months equal					
1777	Jap. 100 Feb. 104 March 106 April 110 May 114 June 120 July 125 Aug. 150 Sept. 175 Oct. 275 Nov. 300 Dec. 310	1779 <	Jan. 742 Feb. 868 March 1000 April 1104 May 1215 June 1342 July 1477 Aug. 1630 Sept. 1800 Oct. 2030 Nov. 2308 Dec. 2393	Jan. 7500 Feb. 7509 March 7500 April 7500 May 7500 June 12000 dol. value.				
1778	Jan. 325 Feb. 350 March 375 April 400 May 400 June 400 July 425 Aug. 450 Sept. 475 Oct. 500 Nov. 545 Dec. 634	1780 <	Jan. 2934 Feb. 3322 March 3736 April 4000 May 4800 June 5700 July 6000 Aug. 6300 Sept. 6500 Oct. 6700 Nov. 7000 Dec. 7300	In American national currency, one dollar is equal to 100 cents.				

TABLE of the weight and value of GOLD and SILVER established by law 1785.

The state of the s									
COINS		veight.	valu	ie.					
English)	dut	gr. £	8	d	Call	ક	d		
English or French Crown			6	3	Gold per ounce 5	6	8		
Spanish Dollar			6		Silver per ounce	6	8		
English Guinea	5	6 - 1	8						
French ditto	5	6 -1	7	4	(3 far-)				
Johannes	18	-4	16		Cop- things				
Half ditto	9	_2	8		per of Eng-		1		
Moidore	6	18-1	16	- 1	lish coin				
Doubloon	16	12-4	8		C. S. COM				
Pistole	4	3-1	2	-					

Statement of the FISHERY at Pascataqua and its neighbourhood.

Schooners Boats	27 20 Employed in the Cod a	nd
Tonnage Seamen	630 Scale Fishery annually.	

The Schooners, Boats, and Seamen belonging to the Isles of Shoals are not included in the above estimation.

Product of the F	ishery in the year 1'	791.
	Merchantable fish Jamaica ditto Scale ditto	5170
Quintals made	Jamaica ditto	14217
	Scale ditto	6463
	total,	25850

The fifth made at the Isles of Shoals are included in this statement.

The fuccess of the fishery in this season has been uncommonly good.

Estimate of seamen belonging to New-Hampshire in 1791.

In foreign trade	,	500
Coasting do.		50
Fishery		250

N. B. Some of the feamen who in fummer are employed in the fifthery, are in the winter employed in the coasting business, or in foreign voyages.

CHAP. XIV.

Effect of the climate and other causes on the human constitution. Remarks on population. Tables of Births, Deaths and Casualties.

Thas been confidently afferted by European writers, and by fome of great reputation, that the climates of America, under fimilar latitudes to those of Europe, are unfriendly to health and longevity; that the general period of human life is from forty-five to fifty; and these pernicious effects are ascribed to putrid exhalations from stagnant waters; to a surface uncleared, uncultivated, and loaded with rank vegetation, which prevents it from feeling the purifying influence of the sun.*

If fuch remarks were intended to be confined to the low plains in the fouthern States, the propriety of them might not perhaps be difputed; but a diftinction ought to be made between those parts of America and others in far different circumstances. If authors profess to write as philosophers they should feek for information from the purest sources, and not content themselves with theorising on subjects, which can be determined only by fact and observation; or with forming general conclusions from partial reports. If they write as politicians, their aim may indeed be answered by stating facts in a delusive light; and by representing America as a grave to Europeans, they may throw discouragement on emigration to this country. It is at the same time amusing to observe the inconsistent conclusions of these theorising philosophers; for whilst one condemns the air of woodland as destructive to

^{*} Robertson's History America, Vol. II. p. 17. King's thoughts on Emigration to America, Political Magazine, 1783, p. 261.

life and health, another celebrates it as containing nutritive particles, and afferts that men who live in the woods confume lefs food than those who dwell in open countries.* But notwithstanding the dreams of European philosophers, or the interested views of European politicians, America can best be described by those who have for a long time resided in it. Those who have not seen it at all, and those who have passed through it with the rapidity of a traveller, can be very inadequate judges; yet unhappily there are many of both these classes of writers whose accounts have gained more credit than they deserve.

In that part of America which it falls to my lot to describe, an 'uncleared and uncultivated foil,' is fo far from being an object of dread, that there are no people more vigorous and robust than those who labour on new plantations; nor in fact have any people better appetites for food. This is true not only of the natives of the country, but of emigrants from Europe. It has been a general observation that the first planters in new townships live to a great age. It is also true that the air of our forest is remarkably pure. The tall and luxuriant growth which an European might call 'rank vegetation,' not only indicates strength and fertility of foil; but conduces to abforb noxious vapours; and when the foil is once cleared, if man neglect his duty, nature, with her bountiful hand, produces a fecond growth of 'rank vegetation,' for the same benevolent purpose. A profusion of effluvia from the refinous trees impart to the air a balfamic quality which is extremely favourable to health, and the numerous streams of limpid water, some of which fall with great rapidity from the mountains, cause currents of fresh air which is in the highest degree salubrious, to those who reside on their banks. To these

^{*} Abbe Raynal. History Indies. Vol. III. p. 278.

observations it may be added, that the northwest wind is the grand corrector of every noxious quality which can exist in the air of America; and whilst that wind prevails, it diffuses health and imparts vigour to the human frame.

There are, indeed, fome few fituations, even in New-Hampshire, where vapour arising from land overflowed with fresh water, produces bilious and nervous diseases, and the inhabitants are subject to an early lassitude and debility; which is often increased by an injudicious use of spiritous liquors for medical purposes; but by the removal of such persons to the purer air of the mountains, and a change to a more temperate regimen, these complaints cease,

and the constitution is reinvigorated.

There have also been some instances in the neighbourhood of Connecticut river, of swellings in the throat similar to the gostres among the inhabitants of the Alps. Women have chiefly been affected in that way. A removal to the sea shore, and constant bathing with falt water have contributed to reduce these tumours. A free use of salted fish and vegetable acid, particularly cyder, has also been found beneficial, and by the best and latest information which I have been able to obtain, this disorder is now less frequent, and more easily controled than it was a few years past.

From the tables of mortality which I have collected and which are here exhibited, it appears that a very large proportion of people live to old age, and that many of them die of no acute difease but by the gradual decay of nature. The death of adult persons between twenty and fifty years of age is very rare, when compared with the bills of mortality from European countries. It is computed that nearly one twentieth part of the inhabitants of London

perish, one year with another;* it is certain that not more than one in seventy of the inhabitants of New-Hampshire dies in a year unless when some epidemic disorder prevails, which very seldom happens.

From the tables of cafualties it also appears that the most mortal of the prevailing disorders of this country is the pulmonary confumption. This malady is universally allowed to be more frequent of late years than formerly. I cannot find that it is less common in the new, than in the old towns. It is certainly in some instances hereditary; and it is believed by many to be contagious. Fevers of several kinds are much less malignant than formerly. The chronic rheumatism is very common, but seldom proves mortal. It is often caused by the changes from heat to cold, to which people who labour and travel in all weathers, are exposed.

Patients from the fouthern States and the West India islands with bilious complaints and intermittent fevers, foon recover their health on their arrival to our shores. A regular intermittent, or what is commonly called the fever and ague is extremely rare,

unless it be contracted in some other climate.

It is thought by fome that the exhalations fromfalt marshes are injurious to health. This may be the case where the air is prevented from circulating freely, by the vicinity of high ridges of land; but the town of Hampton, which is almost uniformly level, though it contains a very extensive marsh, is as healthly and as favourable to longevity as any town in the State, as may be evident from an inspection of the tables of mortality for that place.

The natives of foreign countries who remove to this part of America, generally live to a great age; if they do not impair their constitutions by spiritu-

^{*} Rush's Medical Observations, page 47.

ous liquors. There are, indeed, fome veteran fots, natives of this as well as other countries; who render themselves burdensome to society, and contemptible in their advanced age. The purity of our air, and plenty of food, are doubtless the causes of their surviving such frequent draughts of liquid poison.

Attempts have been made at feveral times to afcertain the number of people in New-Hampshire. The late Governor Wentworth was ordered by the British ministry to take an exact survey; but 'haveing no fund to pay the expense, and no law to compel obedience' to the order, he was subjected to the inconvenience of delay and disappointment. The number of the people however, in 1767, was estimated at 52,700. Another estimate was made in 1774, of which I have met with no official account; but have been informed that it was 85,000. This was too high. The estimate given to Congress by the delegates of New-Hampshire, at the commencement of the revolution, was still more extravagant. A survey taken in 1775, partly by enumeration and partly by estimation, for the purpose of establishing an adequate representation of the people, made the whole number 82,200.

I have taken much pains to collect from the feveral towns the numbers loft by means of the late war. By accounts received from twenty-seven towns in different parts of the State, the number lost amounts to 377. These twenty-seven towns, according to the survey in 1775, contained 22,749 inhabitants. If a comparison be made, by the rule of proportion, between these and the other towns in the State; the number lost out of the whole, will amount to 1362; and if a farther allowance be made for the maritime towns, the number may fairly be estimated at 1400. As these were mostly men in the prime and vigour of life, we ought to

take into the account not only the simple loss of so many lives, but a decrease of population, equal to the increase which probably would have been made, had they lived to this time. If we reckon this increase in the proportion of three to one, it will produce the sum of 4200, which, added to the original number, will make 5600. But allowing the 600 for casualties, we may moderately compute 5000 perfons, less than the number would have been, had

the last fifteen years been all years of peace.

The cenfus taken by order of Congress in 1790, is the most correct account which has ever been made. The whole amount is 142,018. If this be compared with the number in 1775, and the difference divided, by the number of intervening years, without any reference to the loss fustained by the war; the average of increase will be 3987 per annum, for the last fifteen years. If the number in 1775 be compared with the number in 1767, and the difference divided by the number of intervening years, the average per annum, for those eight years, will be 3687. If a mean between these two, viz. 3883, be taken for the increasing ratio per annum, since the year 1767, it will produce a number very nearly corresponding with the number taken by the cenfus in 1790. If this mode of computation be just, the number of people in New-Hampshire has actually doubled in lefs than nineteen years, notwithstanding that seven of those nineteen were years of war.

This may more clearly appear from the following table; in which the first column contains the years; the second column shews the number in each year, by the ratio of 3883; and the third the numbers by the ratio of 3687 for the first eight years, and 3987 for the last sifteen.

TABLE OF POPULATION.

		_	
1767	52700	ר 52700	
68	56583	56387	
69	60466	60074	
1770	64349	63761	
71	68232	67448	increasing by 3687.
72	72115	71135	
73	75998	74822	
74	79881	78509	
75	78364	82196	
76	87647	86183	
77	91530	90170	
78	95413	94157	
79	99296	98144	
1780	103179	102131	
81	107062	106118	
82	110945	110105	
83	114828	114092	increasing by 3987.
84	118711	118079	}
85	122594	122066	
86	126477	126053	
87	130360	130040	
88	134243	134027	
89	138126	138014	
1790	142009	142001	,

In both columns, the half of the number taken by the census, viz. 71,009, falls between the years 1771 and 1772; a period short of nineteen years, from 1790.

This rapid increase of population, is partly natural and partly adventitious. The distinction between these two causes is evident; but to ascertain the precise limits of their respective operations, is impracticable, without a more minute survey than has ever yet been taken. Large emigrations have been made since the peace of 1763, from the neighbouring States, into the new townships of New-Hamp-

fhire. Those from the old towns to the new, have been also very confiderable; and though at first view these latter may not seem to have augmented the number of the people; yet upon a more close attention to the subject, it will be found that even in them there is a productive cause in increase. Where land is cheap, and the means of sublistence may be acquired in fuch plenty, and in fo fhort a time as is evidently the case in our new plantations, encouragement is given to early marriage. A young man who has cleared a piece of land, and built a hut for his present accommodation, soon begins to experience the truth of that old adage, 'It is not ' good for man to be alone.' Having a prospect of increasing his substance by labour, which he knows himself able to perform, he attaches himself to a female earlier than prudence would dictate if he had not fuch a prospect. Nor are the young females of the country averse to a settlement in the new plantations; where, after the fecond year's labour, by which the land is brought into pasture, there is a necessity for beginning the work of a dairy; an employment which always falls to their lot, and is an object of their ambition, as well as interest.

TABLE of BAPTISMS and DEATHS in Hampton, collected from the church records of the Rev. WARD COTTON.

Years.	Deat	hs. Be	afitisms.	Ages	3.	
		Male.	Female.	under 2	years.	62
1735	15	19	21	between 2	and 5	52
36	69	22	28	5	10	16
37	16	21	23	10	20	23
38	19	27	22	20	30	24
39	25	26	15	30	40	9
1740	14	20	15	40	50	7
41	17	15	27	50	60	8
42	21	20	12	60	70	9
43	- 11	17	17	70	80	13
44	9	19	19	80	90	5
				9 0	100	8
Total	216	206	199			
	Stranger, Stranger		prompting territories		Deaths	216
		Adults	19		Baptisms	424

TABLE of BAPTISMS and DEATIIS in Hampton, Continued.

Years.	Deaths	3.	Baptims.		Age.	S.	
		Tale.	Female.	under	2	years.	60
1745	32	22	20	between	2	and 5	26
46	13	23	16		5	10	23
47	16	25	15		10	20	26
48	19	22	19		20	30	10
49	26	14	22		30	40	13
1750	17	16	17		40	50	5
51	15	18	13		50	60	10
52	16	11	20		60	70	13
53	14.	18	15		70	80	16
54	53	19	21		80	90	16
		-	dragsgalmonag.		90	100	3
Total	221	178	138				
	-					Deaths	221
		Adult	s 5			Baptisms	371
-				under	2	***	
1755	32	13	17	under		years.	44
1755	32 36	13	17	under between	2	years.	44
56	36	19	16		2 5	years. 5	44 7 14
56 57	36 13	19 20	16 16		2 5 10	years. 5 10 20	44 7 14 13
56 57 58	36	19 20 20	16 16 12		2 5 10 20	years. 5 10 20 30	44 7 14 13 16
56 57 58 59	36 13 23	19 20	16 16		2 5 10 20 30	years. 5 10 20 30 40	44 7 14 13 16
56 57 58	36 13 23 21	19 20 20 14	16 16 12 18 21		2 5 10 20 30 40	years. 5 10 20 30 40 50	44 7 14 13 16 13
56 57 58 59 1760	36 13 23 21 19	19 20 20 14 23	16 16 12 18		2 5 10 20 30 40 50	years. 5 10 20 30 40 50 60	44 7 14 13 16 13 11
56 57 58 59 1760 61	36 13 23 21 19	19 20 20 14 23 19	16 16 12 18 21		2 5 10 20 30 40	years. 5 10 20 30 40 50 60 70	44 7 14 13 16 13 11 5
56 57 58 59 1760 61 62	36 13 23 21 19 12	19 20 20 14 23 19	16 16 12 18 21 18		2 5 10 20 30 40 50	years. 5 10 20 30 40 50 60 70 80	44 7 14 13 16 13 11 5 21 30
56 57 58 59 1760 61 62 63	36 13 23 21 19 12 15	19 20 20 14 23 19 13	16 16 12 18 21 18 18		2 5 10 20 30 40 50 60	years. 5 10 20 30 40 50 60 70	44 7 14 13 16 13 11 5
56 57 58 59 1760 61 62 63	36 13 23 21 19 12 15	19 20 20 14 23 19 13	16 16 12 18 21 18 18		2 5 10 20 30 40 50 60 70	years. 5 10 20 30 40 50 60 70 80 90	44 7 14 13 16 13 11 5 21 30 9
56 57 58 59 1760 61 62 63	36 13 23 21 19 12 15 16 no record	19 20 20 14 23 19 13 16 18	16 16 12 18 21 18 18 14 22		2 5 10 20 30 40 50 60 70	years. 5 10 20 30 40 50 60 70 80 90	44 7 14 13 16 13 11 5 21 30 9
56 57 58 59 1760 61 62 63	36 13 23 21 19 12 15 16 no record	19 20 20 14 23 19 13 16 18	16 16 12 18 21 18 18 14 22		2 5 10 20 30 40 50 60 70	years. 5 10 20 30 40 50 60 70 80 90 100	44 7 14 13 16 13 11 5 21 30 9

TABLE of BAPTISMS and DEATHS in Hampton, by the Rev. EBEN-EZER THAYER.

Years.	Death	8.	Basitisms.		1	Ages.	
		Male.	Female.	under	2	years.	23
1767	7	30	14	between	2	and 5	6
68	10	13	13		5	10	2
69	10	15	15		10	20	7
1770	14	20	16	5	20	30	13
71	7	8	11	3	30	40	5
72	11	9	15	4	10	50	7
73	12	19	17		50	60	9
74	8	15	14	6	60	70	8
75	12	11	7	7	0	80	17
76	24	16	13	8	80	90	15
	-	-		S	0	100	3
	115	156	135				
			Adults 3			Deaths	115
	× .					Baptisms	294

TABLE of BAPTISMS and DEATHS in Hampton, continued.

Years.	Death	Baf	itisms.			Ages.	
			emale.	under	2	years.	26
1777	9	14	9	between	2	and 5	7
78	11	10	11		5	10	6
79	11	18	5		10	20	4
1730	9	11	3		20	30	7 2 6
81	7	16	8		30	40	2
82	6	17	4		40	50	6
83	14	14	16		50	60	1
84	9	12	10		60	70	8
85	12	7	8		70	80	16
86	11	9	8		80	90	10
		-			90	100	3
	99	128	92			***	
		Adu	lts 2			Deaths	99
						Baptisms	228
							
				under	2	years	9
1787	13	13	11	between	2	and 5	1
88	12	10	15		5	10	2
					_		20
89	13	8	9		10	29	-
90	5	8 10	12		10 20	29 30	7
90 91	5 3	8			10 20 30	29 30 40	7 1
90 91 to Octobe:	5 3	8 10 9	12 5		10 20 30 40	29 30 40 50	7
90 91	5 3	8 10	12		10 20 30 40 50	29 30 40 50 60	7 1 2 -
90 91 to Octobe:	5 3	8 10 9	12 5		10 20 30 40 50	29 30 40 50 60 70	7 1 2 - 3
90 91 to Octobe:	5 3	8 10 9	12 5		10 20 30 40 50 60 70	29 30 40 50 60 70	7 1 2 - 3 8
90 91 to Octobe:	5 3	8 10 9	12 5		10 20 30 40 50 60 70	29 30 40 50 60 70 80 90	7 1 2 - 3 8 11
90 91 to Octobe:	5 3	8 10 9	12 5		10 20 30 40 50 60 70	29 30 40 50 60 70	7 1 2 - 3 8
90 91 to Octobe:	5 3	8 10 9	12 5		10 20 30 40 50 60 70	29 30 40 50 60 70 80 90	7 1 2 - 3 8 11

NEW-HAMPSHIRE.

TABLE OF CASUALTIES IN HAMPTON.

Casualties,	to	1745 to	to	
	1744	1754	1763	
A			1	
Accident	6	4 2	1 2	
Apoplexy		2	1	
Asthma Cancer	3	9	4.	
Childbed	12	2	1	
Cholic	2	5 3	3	
Consumption	15	26	21	
Convulsions	8	15	11	
Dropsy		3	2	
Dysentery .	1	4	7	
Fevers	16	30	41	
Jaundice	1		i	
King's evil			2	
* Long sickness	5	2	1	
Mania			1	
Measles		2 3		
Mortification		1	2	
Old age	12	12	9	
Palsy	2	9	8	
Pleurisy	2.	1	2	
Quinsy	1	1	2	
Rheumatism	1			
Small pox			4	
Sore mouth	1	3	3	
Strangury	2	3	2	
Suddenly	7	2	11	
Throat Distemper	91	60	30	
† Unknown	28	28	13	
Whooping cough			2	
	-			
Total	216	221	1187	

^{*} The term long sickness is peculiar. It probably means the same with Consumption.

[†] In the class unknown are included the nameless disorders of young children, and the still-born.

TABLE OF CASUALTIES IN HAMPTON, Continued.

Casualties.	to	1777 to 1786	1787 to 1791
Accident	7	1	2
Asthma		1	
Bleeding		1	
Cancer	2		1
Childbed	1		3
Cholic	1		
Consumption	27	21	9
Convulsions	5	13	2
Dropsy	1	5	
Dysentery	9	2	3 3
Fevers	12	9	3
Gravel		1 3	1
Jaundice	2	3	
Lethargy Measles			1
Mortification	1 4		
Nervous head ache	4	4	2
Old age	1,4	-	
Palsy	14	. 6	7 3
Quinsy	6	1	3
Rheumatism	,	1	
Schirrus		1	
Small pox	1	1	
Scrophula .	1	2	
Sore mouth		Ĩ	
Suddenly	3	3	6
Throat distemper	3	7	
Violence		1	
Whooping cough	2	3	
Worms	2 6	7 1 3 2	1
Unknown	7	3	1
	115	99	46
	1115	99	40

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TABLE of BAPTISMS and DEATHS in Newmarket, collected from the Records of the Rev. John Moody, by Wentworth Cheswill, Esq.

		CHESW	ILL, Esq.			
Years.	Deaths.	Bafitisms.		As	es.	
1731	7	30	under	5		37
32	9	14	between	5	and le	
33	1	21		10		0 3
34	1	18		20		0 1
35	18	20		30	4	
36	11	31		40		0 2
37	7	22		50		0 1
38	4	19		60		0 5
39	4	28		70		0 2
1740	ī	22		80		0 1
	-			90	10	
	63	225			bove 10	
	05	225			unknov	
				age	diikiio	1711 2
						63
			P pieceton,			0.5
1741	9	29				
42	9	44	under	5		63
43	33	44	between	5	and 1	
44	11	26		10	2	
45	3	23		20	3	
46	11.	22		30	4	
47	4	26		40	_5	
48	8	17		50	6	
49	14	28		60	7	
1750	12	24		70	8	
31.50	12	~ *		80	9	
	114	283		90		00
	1 1 'F	200			unknow	
				age	MINUM	n 4
						114
						1 14
1751	25	27	under	5		98
52	47	36	between	5	and 1	
53	32	17		10	20	
54	21	23		20	3	
55	19	24		30	4	
56	13	26		40	5	
57	18	29		50	6	
58	24	24		60	70	
59	21	20		70	80	
1760	19	20		80	90	
.,00				90	10	
	239	246			unknow	
	~ 0 2	- 20		-50	u1111110 17	

TABLE of BAPTISMS and DEATHS in Newmarket, Continued.

TABLE OF	DALIL	owio and Di	EVIUS III Men	market	Communacu.
Years.	Deaths.	Baptisms.	Ag	res.	
1761	23	34	under 5		53
62	8	25	between 5	and 10	5
63	8	28	10	20	6
64	13	24	20	30	12
65	12	16	30	40	
66	25	19	40	50	8
67	18	16	50	60	7
68	8	7	60	70	13
69	9	13	70	80	17
1770	14	12	80	90	8
			90	100	
	138	194	age	unknowi	1 4
					120
	5				138

TABLE of DEATHS in Dover-by JEREMY BELKNAP.

Years.	No. of Death	is.		Ages.	$\mathcal{N}_{o}.$
1767	9	under	2	years.	46
68	17	between	2	and 5	9
69	19		5	10	14
1770	16		10	20	6
71	23		20	30	10
72	17		30	40	15
73	15		40	50	13
74	10		50	60	6
75	12		60	70	22
76	47		70	80	28 ·
	Stringing crafteded		80	90	13
	185		90	100	2
abroad in ?	8	above		100	1
the war 5	6).				
	Name of Street				185
	193				
1777	29	under	2	years	47
78	16	between	2	and 5	20
79	9		5	10	7
1780	20		10	20	12
81	8		20	30	14
82	22		30	40	9
83	23		40	50	14
84	24		50	60	13
85	33		60	70	15
86	8		70	80	20
to Sept.	-		80	90	18
	19.5		90	100	3
abroad in ?	21				
the war	~ 1				192
	decree and the same of the sam				-
	231				

Of unmarried females between 15 and 25 years of age, eight died in 20 years.

Of married females of the same age, four.

Still-born children are not reckoned in this table.

No account of Births could be obtained, many of the inhabitants being Quakers; and of the others, many did not bring their children to Baptism.

TABLE OF CASUALTIES IN DOVER.

	-		1
Casualties.	767 1 to	10	
Accidents	11 1	10	
Apoplexy	il	3	
Ashma	3	•	
Bleeding	2		
Cancer	ĩ	1	
Childbed	7	3	
Cholic	3	1	
Cough and fever	5	-	
Whooping Cough	1	10	
Consumption	26	34	
Convulsions	5	3	
Decay of nature	19	16	
Dropsy	6	14	
Drunkenness	-1		
Dysentery	2	17	
Felones de se		2	
Fevers	25	17	
Gravel	1		
Jaundice	4	3	
Iliac passion		1	
King's evil	2		
Mania	1	2	
Measles	1		
Children in the month	20	17	
Mortification		5	
Nervous head ache	3	1	
Palsy	5	6	
Quinsy	1	7	
Rickets	١.	2	
Rheumatism	1		
Strangury	3		
Suddenly	4	11	
Throat Distemper	li	11	
Thrush	19		
* Worms	19	7	
	185	192	
		,	

In the class of worms are included the nameless discuses of children

TABLE of DEATHS in East-Kingston, collected from the records of the Rev. Peter Coffin, by the Rev. Isaac Mansfield.

Years.	No. of D	eaths. Age.	۶.	No.
1740	4	under 1	year	19
41	5	between 1	and 3	20
42	6	3	5	8
43	8	5	10	6
44	21	10	20	8
45	6	20	30	7
46	18	30	40	3
47	6	40	50	5
48	14	50	60	8
49	6			
				94
	94			
1750	5	under 1	year	25
51	6	between 1	and 3	14
52	6	3	5	8
53	13	5	10	6
54	13	10	20	10
55	20	20	30	5
56	12	30	40	5
57	7	40	50	13
58	11	50	60	4
59	6	60	70	2
		70	80	6
	99	80	90	1
				99
	1			
1760	. 14		year	20
61	8		and 3	10
62	2 3	3	5	
63	3	5	10	5
64	10	10	20	6
65	6	20	30	14
66	5	30	40	11
67	4.	40	50	4
68.	. 6	50	60	4
69	4	60	70	7
1770	+ 15	70	80	5
71	13	80	90	4
				-
	90			90

TABLE of BIRTHS and DEATHS in Wilton, by the Reverend ABEL FISKE.

Years.	Deaths.	Births.	Excess of births
1784	11	47	36
85	. 7	49	42
86	6	38	32
87	11	49	38
88	14	29	15
89	2	37	35
90	20	32	12
		-	Branne
	71	281	210

Progress of POPULATION in Wil-rable of DEATHS in Exeter, by ton. the Rev. Isaac Mansfield.

1739 2 families. 1784 1755 70 persons. 85 1763 240 86 1775 623 87	22 27 26 31 20
1755 70 persons. 85 1763 240 86 1775 623 87	27 26 31 20
1763 240 86 1775 623 87	26 31 20
1763 240 86 1775 623 87	31 20
	31 20
	20
1786 1013 88	
1790 1105	126
TABLE of DEATHS and CASU-	-
ALTIES in Conway, by the under 1 year	18
Rev. NATHANIEL PORTER. between 1 and 3	9
3 5	5
From Oct. 1778, to Oct. 1790. 5	5
10 20	9
under 9 years, chiefly Throat 27 20 30	17
	10
Fevers 3 40 50	10
Fevers 3 40 50 Mortification, 2 50 60 Dropsy 2 60 70	6
	11
	12
Suddenly 2 80 90	12
Decay of nature Æt. 90 1 90 100 Consumption Æt. 48	2
Canker 2 Total 12	16
Felo de se	
Accidents, 3	
200	
Total 55	

age.

TABLE of CASUALTIES in Exeter, by the Rev. ISAAC MANSFIELD.

Casualties.	$\mathcal{N}o.$	Casualties. N
Accident	6	20.01 11111011
Apoplexy Asthma	2	Patrice
Cancer Childbed	5	
Cholera morbus Complication of disorders	1	Palsy Quincy
Consumption Convulsions	39	Scarlet fever
Decay of Nature	12	Scrophula
Diarrhæa Dropsy	5	Throat distemper Whooping cough
Epilepsy Fever-nervous	7	Unknown
,	·	Total 12

Remarkable instances of Longevity.

In Dover, Howard Henderson died in 1772, aged upwards of 100 years. In the former part of his life he was a seaman, and served on board the sleet of Sir Cloudesly Shovel, at the taking of Gibraltar from the Spaniards in 1704.

In Durham, John Buss, a preacher of the gospel for 33 years, but not ordained, also a practitioner of physic, died in 1736, at the age of 108. He was remarkably active and vigorous at a very advanced

The family of Col. James Davis, whose name is mentioned in the preceding History, (vol. 1, pages 274, 332, 347) was remarkable for longevity as well as superior stature.

The father di	ed in 1749, aged	88	
	James	93	
	Thomas	88	
	Samuel 1788	99	
	Daniel	65	
	Sarah	91	
His children	Hannah	77	
This children	Elizabeth	79	
	Ephraim 1791,	87	
	Phebe Æt. 85, and the widow		
	of Samuel Æt. 102, are yet		
	living.		

In Londonderry, the first planters lived, on an average, to 80 years; some to 90, and others to 100. Among the last was William Scoby, who died in 1754, at the age of 110. The two last heads of the sixteen families who began the planting of that town, died there in 1782, aged about 93 years each. They were women.

In Chefter, James Wilfon died in 1739, aged 100 years.

James Shirley in 1754, aged 105.

Another person of the same name, aged 91, was living in 1790.

William Craigie and his wife died in 1775, each

aged 100.

In Newmarket, William Perkins died in 1732, aged 116. He was born in the West of England. Governor Burnet visited him at Newmarket, and examined him respecting many facts and occurrences during the civil wars in England in the last century. His son died in 1757, aged 87. Several of his grand children have lived above 70 years.

In Barrington, fourteen of the first planters were living in 1785, who were between 80 and 90 years

of age. The fettlement began in 1732.

In Atkinfon, Ebenezer Belknap died at the age of

95, and his wife at the age of 107.

In Wakefield, Robert Macklin, a native of Scotland, died in 1787, at the age of 115. He lived feveral years in Portfinouth, and followed the occupation of a Baker. He frequently walked from Portfmouth to Boston, 66 miles, in one day, and returned in another. This journey he performed, the last time, at the age of 80.

In Salem, (a town adjoining the fouthern boundary) Abiel Asten, one of Lovewell's brave company, who behaved gallantly at the battle of Pigwack-

et, in 1725, was living in 1790, aged 86.

The two eldest ministers of the gospel now living, are the Rev. James Pike of Somerfworth, aged 88, and the Rev. Ebenezer Flagg of Chester, aged 87.

CHAP. XV.

Political Character, Genius, Manners, Employments and Diversions of the People.

IT is much less difficult and dangerous to describe the character of the dead than the living; but in so great a variety as the inhabitants of a whole State, there cannot but be some general traits which all must allow to be just; and which, however disagreeable, if applied particularly, yet will not be disrelished by any, when delivered only in general terms. It is not my wish to exaggerate either the virtues or desects of my countrymen; but as an American, I have a right to speak the truth, concerning them, if my language be within the limits of decency.

The genius and character of a community are in fome measure influenced by their government and political connexions. Before the Revolution, the people of the different parts of New-Hampshire, had but little connexion with each other. They might have been divided into three classes. Those of the old towns, and the emigrants from them. Those on the fouthern border, most of whom were emigrants from Massachusetts; and those on Connecticut riv-

er, who came chiefly from Connecticut.

Of the first class the people might be subdivided into those who, having been trained in subjection to Crown Officers, were expectants of favours from government, and ready to promote the views of the aristocracy; and those who, from principal or habit, were in opposition to those views. A long and intimate connexion with Massachusetts, both in peace and war, kept alive a democratic principle; which,

though it met with the frowns of men in office, yet when excited to action, could not be controled by their authority. The people of the fecond class were naturally attached to Maifachufetts, whence they originated, and where they were connected in trade. Some towns had fuffered by the interference of grants made by both governments and by controversies concerning the line, which gave birth to law fuits, carried on with great acrimony and expense for many years. Those of the third class brought with them an affection and respect for the colony whence they emigrated, and where the democratic principal had always prevailed. They entertained an inferior idea of the people in the maritime parts of the State; whilst these in return looked with an envious eye on those emigrants to whom were fold the lands which had been promifed to be given to them as a reward for the exertions and fufferings of their parents and themselves in defending the country against its enemies.

Another fource of difunion was the unequal representation of the people in the General Assembly. As late as the year 1773, of one hundred and forty-feven towns, forty-fix only were represented, by thirty-four members; and several towns were classed, two or three together, for the choice of one. The towns of Nottingham and Concord, though full of people, and of above forty years standing had not once been admitted to the privilege of representation; and this was the case with many other towns; which, though not of so long settlement, yet contained more inhabitants than some others, which had always enjoyed the privilege. No uniform system of representation had been adopted. None could be established by law, because it was claimed by the Governor as part of the royal prerogative to call Representatives from new towns; and this preroga-

tive was exercised without any regard to the rights, the petitions, or the sentiments of the people.

Before the year 1771 the Province was not divided into counties; but every cause from even the most remote parts was brought to Portsmouth, where the courts were held and the public offices were filled by a few men, most of whom were either members of the Council, or devoted to the interest of the Governor, or perfonally related to him. In the administration of justice, frequent complaints were made of partiality. Parties were sometimes heard out of court, and the practice of watering the jury was familiarly known to those persons who had much business in the Law. The dernier resort was to a court of appeals, confifting of the Governor and Council; of whom feven were a quorum and four a majority. Here the final fentence was often paffed by the same persons who had been concerned in the former decisions; unless the cause were of such value as to admit of an appeal to the King in Council. During the administration of the last Governor, fome of these sources of disaffection were removed; but others remained, for an experiment, whether a cure could be effected, by a change of government.

The Revolution which called the democratic power into action, has repressed the aristocratic spirit. The honors and emoluments of office are more generally diffused; the people enjoy more equal privileges, and, after long dissention, are better united. Government is a science, and requires education and information, as well as judgment and prudence. Indeed there are some who have struggled through all the disadvantages arising from the want of early education, and by sorce of native genius and industry, have acquired those qualifications which have ena-

bled them to render eminent fervice to the community; and there are others who have been favoured with early education, and have improved their opportunity to good purpose. Notwithstanding which, the desiciency of persons qualified for the various departments in Government, has been much regretted, and by none, more than by those few, who know how public business ought to be conducted. This desiciency is daily decreasing; the means of knowledge are extending; prejudices are wearing away, and the political character of the people is manifestly improving.

But however late the inhabitants of New-Hampthire may be, in political improvement; yet they have long possessed other valuable qualities which have rendered them an important branch of the American union. Firmness of nerve, patience in fatigue, intrepidity in danger and alertness in action, are to be numbered among their native and essen-

tial characteristics.

Men who are concerned in travelling, hunting, cutting timber, making roads and other employments in the forest, are inured to hardships. They frequently lie out in the woods several days or weeks together in all seasons of the year. A hut composed of poles and bark, suffices them for shelter; and on the open side of it, a large sire secures them from the severity of the weather. Wrapt in a blanket with their seet next the sire, they pass the longest and coldest nights, and awake vigorous for labour the succeeding day. Their food, when thus employed, is salted pork or beef, with potatoes and bread of Indian corn; and their best drink is water mixed with ginger; though many of them are fond of distilled spirits, which, however, are less noxious in such a situation than at home. Those who

begin a new fettlement, live at first in a style not less simple. They erect a square building of poles, notched at the ends to keep them fast together. The crevices are plaistered with clay or the sliffest earth which can be had, mixed with moss or straw. The roof is either bark or split boards. The chimney a pile of stones; within which a fire is made on the ground, and a hole is left in the roof for the smoke to pass out. Another hole is made in the side of the house for a window, which is occasionally closed with a wooden shutter. In winter, a constant fire is kept, by night as well as by day; and in fummer it is necessary to have a continual smoke on account of the musquetos and other insects with which the woods abound. The same defence is used for the cattle; fmokes of leaves and brush are made in the pastures where they feed by day, and in the pens where they are folded by night. Ovens are built at a small distance from the houses, of the best stones which can be found, cemented and plaistered with clay or stiff earth. Many of these first essays in housekeeping, are to be met with in the new plantations, which ferve to lodge whole families, till their industry can furnish them with materials, for a more regular and comfortable house; and till their land is fo well cleared as that a proper fituation for it can be chosen. By these methods of living, the people are familiarised to hardships; their children are early used to coarse food and hard lodging; and to be without shoes in all seasons of the year is scarcely accounted a want. By fuch hard fare, and the labour which accompanies it, many young men have raifed up families, and in a few years have acquired property fufficient to render themselves independent freeholders; and they feel all the pride and importance which arife from a consciousness of

having well earned their estates.

They have also been accustomed to hear their parents relate the dangers and hardships, the scenes of blood and desolation through which they and their ancestors have passed; and they have an ambition to emulate their hardy virtues. New-Hampshire may therefore be considered as a nursery of stern heroism; producing men of sirmness and valor; who can traverse mountains and deserts, encounter hardships, and face an enemy without terror. Their martial spirit needs only opportunity to draw it into action; and when properly trained to regular military duty, and commanded by officers in whom they can place considence, they form a militia fully equal to the desence of their country.

They are also very dextrous in the use of edge tools, and in applying mechanical powers to the elevation and removal of heavy bodies. In the management of cattle they are excelled by none. Most of their labor is performed by the help of oxen; horses are seldom employed in the team; but are used chiefly in the saddle, or in the winter season,

in fleighs.

Land being easily obtained, and labour of every kind being familiar, there is great encouragement to population. A good husbandman, with the favings of a few years, can purchase new land enough to give his elder sons a settlement, and assist them in clearing a lot and building a hut; after which they soon learn to support themselves. The homestead is generally given to the youngest son, who provides for his parents, when age or infirmity incapacitates them for labour. An unmarried man of thirty years old is rarely to be found in our country towns. The women are grandmothers at forty,

and it is not uncommon for a mother and daughter to have each a child at the breast, at the same time; nor for a father, son and grandson, to be at work together in the same field. Thus population and cultivation proceed together, and a vigorous race of inhabitants grows up, on a soil, which labor vies

with nature to render productive.

Those persons, who attend chiefly to husbandry, are the most thriving and substantial. Those who make the getting of lumber their principal bufiness, generally work hard for little profit. This kind of employment interferes too much with husbandry.
The best season for sawing logs is the spring, when the rivers are high; this is also the time for ploughing and planting. He who works in the faw-mill at that time, must buy his bread and clothing, and the hay for his cattle, with his lumber; and he generally anticipates the profit of his labor. Long credit is a difadvantage to him; and the too free indulgence of spiritous liquor, to which this class of people are much addicted, hurts their health, their morals and their interest. They are always in debt, and frequently at law. Their families are ill provided with necessaries, and their children are without education or morals. When a man makes hufbandry his principal employment, and attends to lumber only at feafons of leifure; and can afford to keep it for a market, and be his own factor, then it becomes profitable. The profits of the other generally goes into the hands of the trader, who fupplies him with necessaries at an advanced price, and keeps him in a state of dependance.

Where husbandry is the employment of the men, domestic manufactures are carried on by the women. They spin and weave their own flax and wool; and their families are clad in cloth of their

own making. The people of Londonderry, and the towns which are made up of emigrants from it, attend largely to the manufacture of linen cloth and thread, and make great quantities for fale. These people are industrious, frugal and hospitable. The men are fanguine and robust. The women are of lively dispositions, and the native white and red complexion of Ireland is not lost in New-Hampshire. 'The town is much indebted to them for its

' wealth and confequence.'*

The people of New-Hampshire, in general, are industrious, and allow themselves very little time for diversion. One who indulges himself in idlenefs and play, is stigmatifed according to his demerit. At military musters, at Judicial Courts, at the raifing of houses, at the launching of ships, and at the ordination of Ministers, which are feasons of public concourfe, the young people amufe themselves with dancing. In fome towns they have a practice, at Christmass of shooting geese for wagers; and on many other occasions, the diversion of firing at marks is very common, and has an excellent effect in forming young men to a dexterous use of arms. The time of gathering the Indian corn is always a feafon of festivity. The ears are gathered and brought home by day; and in the evening a company of neighbours join in husking them, and conclude their labour with a supper and a dance. In the capital towns they have regular affemblies for dancing; and fometimes theatrical entertainments have been given by the young gentlemen and ladies. In Portfmouth, there is as much elegance and politeness of manners, as in any of the capital towns of New-England. It is often visited

[.] MS. letter of the Rev. William Morrison of Londonderry.

by strangers, who always meet with a friendly and

hospitable reception.

The free indulgence of fpiritous liquors, has been, and is now, one of the greatest faults of many of the people of New-Hampshire; especially in the neighbourhood of the river Pascataqua, and its branches, and wherever the business of getting lumber forms the principal employment of the people. If the reader is curious to form an estimate of the quantity of distilled spirits consumed in the State, he may satisfy himself, partly by inspecting the Table of importation; partly by inquiring the number of barrels of rum manufactured at the only distill house in the State; partly by considering the quantity transported by land from the different seaports of Massachusetts, and partly by knowing 'the allowance' which is usually given to labouring people in the neighbourhood of the river Pascataqua; and which is obstinately persisted in, notwithstanding the remonstrances and endeavours of some worthy, characters to abolish it.

In travelling up the country it affords pleafure to observe the various articles of produce and manufacture coming to market; but in travelling down the country, it is equally disgustful to meet the same teams returning, loaded with casks of rum, along with fish, salt, and other necessary articles.

Before the Revolution it was customary to give drams at funerals, and in some towns to repeat the baneful dose two or three times. During the war, a scarcity of materials gave opportunity to put a check on this pernicious practice. It is now less common in most places, and in some it is wholly disused.

Among husbandmen, cyder is their common drink. Malt liquor is not so frequent as its whole-

fomeness deserves; and as the facility with which barley and hops may be raised, seems to require. In some of the new towns a liquor is made of spruce twigs, boiled in maple sap, which is extremely pleasant. But after all, there are no persons more robust and healthy, than those, whose only or principal drink is the simple element, with which nature has universally and bountifully supplied this happy land.

CHAP. XVI.

Constitution, Laws, Revenue, and Militia.

THE form of government, established in 1784, is founded on these two grand principles, viz. 1. That 'the people have the sole and exclusive right of governing themselves, as a free, sovereign and independent State; exercising and enjoying every power, jurisdiction and right pertaining thereto, which is not, or may not hereafter be by them expressly delegated to the United States of America, in Congress assembled.' And 2. That the three essential powers of government, the legislative, executive and judicial ought to be kept as feparate from, and independent of each other, as the nature of a free government will admit; or as is consistent with that chain of connexion which binds the whole fabric.'

The rights of the people are particularly declared in thirty-eight articles prefixed to the form of government. The objects of this declaration are perfonal freedom, the fecurity of property, and the

peace and order of human fociety.

By this constitution, the legislative power is vested in a General Court, consisting of a Senate and house of Representatives, each of which has a negative upon the other. The Senate consists of twelve persons chosen by the several counties in the following proportions; sive for Rockingham; two for Strafford; two for Hillsborough; two for Cheshire; and one for Grafton. But the General Court may divide the State into different districts, and assign the number of Senators, in proportion to the public taxes, paid by each district. The Senate, therefore,

may be confidered as reprefenting the property of the State.

The qualifications of a Senator are these. He must be thirty years of age; he must have been resident in the State for seven years; and at the time of his election, must be an inhabitant of the district for which he is chosen; he must possess in his own right, a freehold of two hundred pounds value, within the State, and he must be of the pro-

testant religion.

The number of the house of Representatives is not limited; but the principles on which it is professedly regulated, are population and equality. Every town containing 150 rateable poles of twenty-one years of age, may elect one representative. Every town containing 450 may choose two; the mean increasing number for every representative being 300. This proportion is said to be 'as equal as circumstances will admit.' Towns which have less than 150 polls, are generally classed for the choice of a representative.

The qualifications of a representative are two years' habitancy; an estate of £100, one half of which is a freehold in the town he represents; actual residence within the same, and a profession

of the protestant religion.

Money bills originate in the house of Representatives; but may be amended by the Senate. Impeachments are made by the house, and tried by the Senate. The Journals of both houses are printed; and upon the motion of any one member, the yeas and nays on any question are taken and entered on the journals.

The executive power is vested in a President and Council. The President is annually elected by the people in the same town-meetings where the Senators and Representatives are chosen; but if

there be not a majority in favour of one person, the election is made by the General Court. The Representatives nominate two out of the persons who have the highest number of votes, of which two, the Senate by ballot, elect one to be President for the year.

The qualifications of the President are these. He must have been an inhabitant of the State for seven years next preceding his election; he must be thirty years of age; he must have an estate of £500 value, one half of which is a freehold within the State, and he must profess the protestant religion.

The Prefident of the State is also Prefident of the Senate; having an equal vote in legislation with any other member, and a casting vote in case of an

equal division.

The COUNCIL confifts of five perfons, of whom two are chosen out of the Senate and three out of the Representatives, by the joint ballot of both houses. Their qualifications are the same as those of Senators.

Representatives to Congress are chosen by the inhabitants in town meetings, and the votes of each town are returned to the Secretary's office and laid before the General Court. Those who have a majority of the votes are declared duly elected; but if there be a deficiency, the General Court make a list of such persons as have the highest number of votes, equal to double the number wanting; this list is sent to the towns, and out of it they make the choice. The votes then are returned as before; and the person or persons who have the highest number are elected. If there be an equality it is decided by the Secretary, who draws one of the two names.

In case of a vacancy, in the representation of the State in Congress, the votes are taken in the same manner, and returned to the President and Council.

By the constitution of the United States, the number of Representatives to Congress is three. But according to the late cenfus and the determination of Congress that one Representative shall be chosen for every 30,000 inhabitants, the State at the next election will be entitled to four.

The number of ELECTORS for the President and Vice-President of the United States is five; who are chosen in the same manner as the Representatives to Congress. The two SENATORS in Congress

are chosen by the General Court.

The Secretary, Treasurer and Commissary General of the State, are chosen by the General Court. County Treasurers and Recorders of deeds, by the people in town meetings; the votes are returned to the Courts of Sessions, and the person who has the highest number of votes is declared elected; but in case of an equality, the Justices present determine the choice. Clerks of courts are appointed by the Justices, and no clerk can be of council to the parties.

The oath of fidelity to the State is as follows:

'I, AB, do truly and fincerely acknowledge, pro-'fess, testify and declare, that the State of New-'Hampshire is and of right ought to be a free, sovereign and independent State; and do fwear that 'I will bear faith and true allegiance to the fame; and that I will endeavour to defend it against all treacherous conspiracies and hostile attempts whatever. And I do further testify and declare that on man or body of men hath or can have a right to absolve me from the obligation of this oath, ' declaration or affirmation; and that I do make 'this acknowledgement, profession, testimony and ' declaration, honeftly and truly, according to the common acceptation of the foregoing words, without any equivocation, mental evalion, or fecret ref-

'ervation whatever. So help me GOD.'

The enacting style is 'By the Senate and House' of Representatives in General Court assembled.' All indictments and informations conclude 'against

' the peace and dignity of the State.'

The feal of the State is, a field encompassed with laurels; on the field, a ship on the slocks with American colours slying, and a pine tree fallen. In the back ground, a rising sun and view of the ocean. The legend round the field is in these words: Sigillum Reipublica Neo Hantoniens, 1784.

All Judges, Sheriffs, Recorders of deeds, the Attorney and Commissary-General, Secretary, Treasurer and continental military officers, the President, Professors and Instructors of colleges, and officers of the customs are incapable of having a feat in the le-

gislature.

All judicial officers hold their places during good behaviour; but are removeable on the address of both houses of legislature, by the President, with consent of the Council.

No person is capable of holding more than two offices of profit at the same time; and no judge of the superior court can hold any other office than that of justice of the peace, nor receive any pension or salary from any other State or power whatever.

To preferve an adherence to the principles of the conflitution, and to make fuch alterations as experience may render necessary, provision was made, that at the end of seven years, a convention should be called to revise the form of government. The year 1791 being the seventh year, a Convention was called, and is now subsisting by adjournment. Any alteration which may be proposed by them must be slaid before the towns and approved by two thirds

of the qualified voters present,' before it can be established.

The judicial department confifts of, 1st. A Superior Court, in which a Chief Justice presides, and three other Justices assist. This court has cognifance of high crimes and misdemeanors. It receives appeals from the inferior courts and courts of probate, and determines causes of marriage, divorce and alimony. It has two circuits in a year, through the feveral counties. 2d. An Inferior Court in each county, where civil actions of a certain value originate; but no crimial causes are tried. This court has four Justices, and is holden four times in a year. 3d. A Court of General Sessions of the peace, holden in each county the fame week as the inferior courts. It confifts of the Justices of the peace in the county. It has cognifance of finaller crimes and breaches of the peace; and takes care of various occasional and prudential matters. 4th. A Court of Probate of wills in each county holden once in a month by one Judge affifted by a Register. This court has cognisance of all matters relative to the fettlement and descent of estates, testate or intestate; the care of widows and orphans, idiots and perfons infane, and the management of confiscated estates.

Civil actions of more than ten pounds value are brought first before the Inferior Courts; from the judgment of which, either party may appeal to the Superior Court; where a new trial is had; and if either party think himself aggrieved, he may within three years bring a writ of review, and have another trial at the same court, which is final.

In all these courts, causes are determined by a jury of twelve freeholders; who are chosen in the following manner. The Selectmen of the several towns make a list of the names of all persons within their limits, who in their opinion are qualified, and

have an estate of fifty pounds value. One third of these names are put into one box, and two thirds into another. Out of the former, which is supposed to contain the names of the best qualified, are drawn jurors for the superior, out of the other for the inferior court. This is done in public town meeting, by the town clerk, or one of the selectmen; and a summons having been previously sent, by the constable, to the persons thus chosen, their names are returned to the clerk of the court. Grand jurors are also chosen by the inhabitants assembled in town meeting. Before the year 1758, jurors were appointed by the sheriff according to the custom in England.

In criminal causes, a grand jury consisting of any number, between twelve and twenty-four, find a bill of indictment; which is afterward tried, by a petit jury of twelve, who must be unanimous in their verdict. In the trial of criminals, the courts proceed with great tenderness. The system of penal laws is mild. Six offences only are capital; arson, burglary, murder, robbery, sodomy, and treason. During the last twenty-sive years, there have been no more than two capital executions in the

State, both of which were for murder.

A collection of the laws was made and printed in 1771, to which were prefixed the commissions of President Cutts, and of the then Governor; and several acts of Parliament which related to the colonies were intermixed. The laws made after the revolution were printed in 1780. To this edition was presixed the temporary constitution during the war; and subsequent acts were printed in a similar page till the year 1789, when a new edition was printed containing the perpetual laws, passed since the revolution. To this edition is presixed the present form of government, and bill of rights. Another and more perfect edition is now in the press.

It is difficult for any person, but one whose professional business leads him to a practical acquaint-ance with the laws, to give a just and comprehensive view of the whole system; dispersed as it is in several books, and many loose papers; some of which are confessed to be imperfect. Such particulars as can be supposed of any importance, to persons not residing in the State, shall be briefly mentioned. The inhabitants may easily obtain more exact information.

Conveyance of real eftate is made by deeds figured, fealed and acknowledged before a justice of the peace, and recorded in the office of county register. A conveyance is not valid against any other person but the grantor, unless it be thus acknowledged and recorded. Powers of Attorney, by which a conveyance is made, and affidavits in perpetuam rei memoriam may also be recorded; and a copy from the

record is legal evidence.

Debts, not exceeding ten pounds value, may be recovered before a fingle justice of the peace; who may grant a rule to refer the fame to perfons mutually chosen, and upon their award may enter judgment and iffue execution. If a debtor confess before a justice a debt not exceeding ten pounds, a record is made, and execution is iffued or flayed by confent of the parties. Mutual debts and executions may be fet off against each other, and the balance, if any, may be levied by the sheriff. Prisoners for debt are allowed a chamber in the jailor's house, and liberty of the yard. They may employ themfelves in the bufiness of nail-making, the materials for which are provided by the county; and the labourer is allowed one fourth part of the nails which he makes. If he make oath that he is not worth more than fix pounds and one fuit of clothes,

he may be discharged from confinement; but not

from his obligation to the creditor.

Criminal prisoners may be fentenced by the courts to make nails; which are to be taken in payment of the fines, damages or costs to which they

are by law subjected for their offences.

Estates may be devised by will, attested and sub-scribed in the presence of three witnesses. Posthumous children, and children for whom no legacy is devised in the will of the parent, have the same right in the estate, as if the devisor had died intestate. Probate of wills must be made within thirty days; and executors must give bond, for the faithful performance of duty. Division of estates is ordered by the judge of probate, on the application of the heirs; and where an estate lies in common with others, partition is made by the same authority.

Estates intestate descend in equal shares, to children or their legal representatives, and the dower to widows. Personal estate is liable for debts; and, if insufficient, real estate is also chargeable; provision to be first made for the widow out of the personal estate, by the judge. Administration is granted to the widow, or next of kin, or to both, at the discretion of the judge, within thirty days after the decease; and if the widow or next of kin neglect or refuse to administer, then letters of administration may be granted, to one or more of the principal creditors, upon giving bond with sureties. The judge also appoints guardians for minors and persons non compos, and representatives for absent heirs.

The husband during his life is heir to his wife as

tenant by courcefy.

If creditors living within the State neglect to exhibit demands beyond two years, or living without the State, beyond three years, after a will be proved or administration be taken, the debt is extinguished.

Executors and administrators are exempt from personal arrests, unless in case of waste and embezzlement.

Estates Infolvent are distributed in average among creditors, by commissioners appointed by the judge of probate. The reversion of widow's dower is subjected to the payment of debts; and may be sold as the rest of the estate.

Proprietors of Lands holden in common, and undivided, may agree upon methods of calling proprietary meetings; but where no particular mode hath been agreed on, the owners of one fixteenth part of the whole interest may obtain a warrant, from a justice of the peace, to call a meeting; which warrant must be printed in the New-Hampshire gazette. The share of every proprietor is charged with the payment of any sums, voted at a legal meeting, and of all public taxes. The collectors have a right to sell the shares for non payment; referving to the proprietor, liberty of redemption, within two months.

Trespassers on common lands are liable to the payment of heavy fines, if convicted on positive proof; but when circumstantial evidence only appears, they have the liberty of clearing themselves by oath.

Partition of common lands may be ordered by the judge of probate in the county where the land

lies.

Grants of land cannot be forfeited for non-performance of conditions, but by the verdict of a jury, after a folemn hearing in the fuperior court, at the profecution of the attorney-general. After a verdict of forfeiture, the judges have a power of chancery, in favor of individual grantees.

The dimensions of the different kinds of Lumber are regulated by law. Surveyors were formerly

chosen by the towns; but are now appointed by the President and Council, at those places where lumber is delivered. The penalty for delivering or receiving lumber without a survey, is a forfeiture of

one fourth part.

Marriages were formerly folemnifed, by virtue either of a publishment, or of a licence from the Governor. The granting of these licences was accounted part of the royal prerogative; but this practice ceased at the revolution. The intention of the parties is now uniformly published three times, within the towns where they reside. Ministers of the gospel and justices of the peace may perform the marriage ceremony, within the limits of the county. Any other person, presuming to do it, is subjected to a fine of one hundred pounds; saving to the people called Quakers, their peculiar custom. A return of marriages is made to the townclerks, and recorded.

Con the Sabbath, all unnecessary travelling, loitering and indecent behaviour are forbidden, under certain penalties. Tything men in the several towns

are to fee this law executed.

Slavery is not prohibited by any express law. Negroes were never very numerous in New-Hampshire. Some of them purchased their freedom, during the late war, by serving three years in the army. Others have been made free by the justice and humanity of their masters. In Massachusetts, they are all accounted free, by the first article in the declaration of rights. 'All men are born free and 'equal.' In the bill of rights of New-Hampshire, the first article is expressed in these words, 'All men 'are born equally free and independent;' which, in the opinion of most persons, will bear the same countruction. But others have deduced from it this all vence, that all who are born, since the constitution

was made, are free; and that those who were in slavery before, remain so still. For this reason, in the late census, the blacks, in New-Hampshire, are distinguished into free and slaves. It is not in my power to apologise for this inconsistency. However, the condition of most of those who are called slaves, is preserable to that of many who are free in the neighbouring State. They are better provided with necessaries; their labour is not more severe than that of the white people in general; and they are equally under the protection of the law.*

Slitting and rolling mills for iron, linfeed oil mills, and fail cloth manufactories, are exempted from

taxes for ten years.

Flax-feed is put up in casks of seven bushels, or three bushels and a half. Inspectors of flax-feed, and of pot and pearl-ashes, are appointed by the president and council, who are to examine the contents of each cask, and brand it for exportation.

Every township in New-Hampshire is a distinct corporation, having a power of choosing all town officers, which are named in the laws, and of raising money by taxes for the support of ministers, schools, bridges, highways, the maintenance of the poor, and other public purposes. Three or sive Selectmen are annually chosen in each town, who are entrusted with its general concerns, and are commonly styled FATHERS of the town, a name expressive of their prudential character, and of the considence which is reposed in them by the people.

Before the affumption of the State debts by the Congress, the public revenue of the State arose from three sources; an impost, an excise, and a tax upon

^{*} By a law made in the 4th of George I. and still in force, it is enacted; 'that if 'any man smite out the eye or tooth of his man servant or maid servant, or otherwise main and disfigure them, he shall let him or her go free from his service; and shall all low such further recompense as the court of quarter sessions shall adjudge. Also, that 'if any person kill his Indian or negro servant, he shall be punished with death.'

polls and estates. Since the assumption, the two former are levied by the general government throughout the union. The sum allowed to be received in the certificates of New-Hampshire, is three hundred thousand dollars. If this whole sum be subscribed, the domestic debt of the State will be reduced to a trifle; but whether New-Hampshire be a debtor or a creditor State, cannot be known till a final adjustment of the public accounts be made, by the commissioners appointed by Congress.

Taxation by polls and eftates, is conducted in the following manner. Once in feveral years, an act is passed by the General Court, specifying the proportion which each town shall pay to one thoufand pounds. When any sum is voted for a State tax, each town immediately knows its proportion, and a warrant is issued from the treasurer to the selectmen to levy it. They then proceed to tax every inhabitant, by an invoice of rateable estate, which

is taken annually in the month of April.

In this invoice, every male poll between eighteen and feventy years of age, is estimated at ten shillings. The several kinds of rateable estate, are esti-

mated as follows, viz.

Horses and oxen of five years old at	3/.
Cows of five years old	2/.
Horses and cattle of four years	1/6
Ditto of three years	1/.
Ditto of two years	6d.
Orchard land per acre	1/6
Arable ditto	1/.
Mowing ditto	1/.
Pasture ditto	5d.

Mills, wharves and ferries at one twelfth part of the neat yearly income. All other buildings, and all uncultivated land at half of one per cent. of the real value. Stock in trade according to its real value.

Money at interest, at three fourths of one per cent.

If any person refuse to give an invoice of his rateable estate, it is in the power of the selectmen 'to fet down to fuch perfon as much as they judge equitable, by way of doomage; from which there is ono appeal.

County taxes are laid by the justices of the quarter fession, and the county treasurer issues his war-rant to each town, specifying its proportion.

Town taxes are either voted by the inhabitants in town meetings, or laid by the felectmen, at their difcretion.

Every town chor , one or more collectors, to whom the feveral tax bills are committed, with fufficient warrant to take property by distraint, or commit delinquents to prison.

The State tax for the year 1790, amounted to £1050, of which the feveral counties paid the fol-

lowing proportions.

£349	1	
165	19	7
266	15	10
181	13	11
85	15	
	14	8
	165 266 181	£349 1 165 19 266 15 181 13 85 15 14

£1050

By the constitution, the President is captain general and commander in chief of the militia. In his military character he acts without the advice of the executive council, excepting when he grants commissions for executing martial law.

The Prefident and Council appoint general and field officers of the militia. Major Generals appoint

their Aids, and Brigadiers their Majors of brigade. Field officers recommend Captains and fubalterns to the President, from whom they receive their commissions. Commanding officers of regiments constitute Adjutants and Quarter-masters; Captains and subalterns appoint their non-commissioned officers.

All able bodied men from fixteen to forty years of age, are enrolled in the training band; excepting members of Congress and the legislature; civil officers; clergymen; deacons; church wardens; instructors, graduates and students of colleges and academies; schoolmasters; quakers; selectmen; commissioned officers and non-commissioned officers of more than thirty-five years of age; ship masters; physicians and surgeons; ferrymen; millers; indians, negroes and mulattoes.

Each regiment has one colonel, one lieutenant colonel, and two majors. Each company confifts as nearly as may be of fixty-eight rank and file; commanded by one captain, two lieutenants, and one

enfign.

Men capable of bearing arms, from forty to fixty years of age, and who are exempted from the training band, are called the alarm lift; excepting members of Congress, and the legislature, clergymen, officers and students of colleges and academies, quakers, ferrymen, indians, negroes and mulattoes. These are formed into companies; the officers are elected by the companies, and have the rank of field officers.

By the militia law, every non-commissioned officer and private, both of the alarm list and training band, is to have in readiness a musquet and bayonet, with all the necessary appendages, accourrements and ammunition, suitable for a marching soldier. The training band is to be mustered four times, and

the alarm lift twice in a year.

Courts martial are instituted for the trial of disobedience and other offences. In time of invasion or of war, draughts are made from the militia, unless a sufficient number appear as volunteers, which is generally the case. The forces when drawn into actual service are subjected to the regulations of the late continental army.

The militia at prefent is formed into twenty-five regiments of infantry, which are divided into five brigades; three regiments of cavalry, which make another brigade; one independent corps of light

horse; and one regiment of artillery.

The staff confists of one captain-general, two major-generals; fix brigadier-generals; one adjutant-general, and one commissary-general.

The forces of the State are computed as follows:
Twenty-five regiments of training band at 750 each
Total of the alarm lift
Three regiments, and one independent corps of cavalry
One regiment of artillery

300

Total 27550

CHAP. XVII.

Education, Literature, Religion.

HE old laws of New-Hampshire required every town of one hundred families to keep a grammar school; by which was meant a school in which the learned languages should be taught, and youth might be prepared for admission to a university. The same preceptor was obliged to teach reading, writing and arithmetic; unless the town were of fufficient ability to keep two or more schools, one of which was called a grammar school by way of distinction. Formerly, when there were but few towns, much better care was taken to obferve the law concerning schools than after the fettlements were multiplied; but there never was uniform attention paid to this important matter in all places. Some towns were diftinguished for their carefulness, and others for their negligence. When the leading men in a town were themselves persons of knowledge and wisdom, they would provide the means of instruction for children; but where the case was otherwise, methods were found to evade the law. The usual way of doing this, was to engage some person to keep a school, for a few weeks before the court term, and discontinue it soon after. It was the interest of ignorant and unprincipled men, to difcourage literature; because it would detract from their importance, and expose them to contempt. The people in some places, being thus missed, thought it better to keep their children at work, than provide schools for their instruction.

Several instances occur in the public records, as far back as the year 1722, just at the beginning of

an Indian war; that the frontier towns petitioned the affembly, for a special act, to exempt them from the obligation to maintain a grammar school, during the war. The indulgence was granted them, but only on this condition, 'that they should keep a school for reading, writing and arithmetic,' to which all towns of fifty families were obliged. In later times the conduct of the fame towns has been very different. During the late war with Britain, not only those, but many other towns, large and opulent, and far removed from any danger by the enemy, were, for a great part of the time, destitute of any public schools; not only without applying to the legislature for permission; but contrary to the express requirements of law, and notwithstanding courts of justice, were frequently holden, and grand jurors folemnly fworn and charged to prefent all breaches of law, and the want of schools in particular. This negligence was one among many evidences of a a most unhappy prostration of morals during that period. It afforded a melancholy profpect to the friends of science, and of virtue; and excited fome generous and philanthropic persons to devise other methods of education.

Among these the Honourable John Phillips, Esq. of Exeter, was the first to distinguish himself, by founding and endowing a seminary of learning in that town; which, in the year 1781, was by an act of assembly incorporated by the name of 'Phillips's 'Exeter academy.' It is placed under the inspection of a board of trustees; and is governed by a preceptor and an assistant. In this academy are taught the learned languages, the principles of geography, astronomy, mathematics, and logic; besides writing, music, composition and oratory. Particular attention is given to the morals of the students and their instruction in the principles of nat-

ural and revealed religion, and the exercises of piety and virtue. The fund belonging to this institution, is valued at nearly ten thousand pounds. About one fifth part of this fund, lying in lands, is at present unproductive; but the actual income amounts to £480 per annum.

The appropriations are as follows.

The appropriations are as rollows.		
To the support of a preceptor	£133	68
ditto of an assistant	70	
Intended for a professor of divinity	133	68
To the maintenance of indigent		
fcholars	120	
	-	

£456 13 4

The first preceptor was Mr. William Woodbridge.

The present preceptor is Mr. Abbot.

In the following table the number of scholars belonging to this academy in each of the four last years is noted in the second column; and of them, the number whose parents reside in Exeter is noted in the third column.

Years.	No. of Students,	Residents in Exeter.
1787	24	14
1788	30	14
1789	50	27
1790	53	29

It has been thought by fome, that the tendency of fuch inftitutions is to discourage Grammar Schools in their vicinity. In support of this sentiment it is alleged that before this academy was founded, the town of Exeter supported two grammar schools; and that now it supports but one. In answer to this argument it is observed, that though one grammar school is discontinued, yet its place is supplied by a school for reading, writing and arithmetic; and there have been, during the last and

prefent year, fix schools kept in the most populous part of that town, for the instruction of small children, besides those which are supported in the extreme parts. In addition to this observation it ought to be remembered that the academy was first instituted, at a time, when there was a general neglect of town schools in many places; and had it not been for this and other similar institutions, the neglect might have increased by insensible degrees, till ignorance had overspread the country.

Since the establishment of this academy several others have been erected. One of which is at New-Ipswich. It was incorporated in 1789. Its fund is about one thousand pounds. The number of students is generally between forty and fifty. The price of tuition is one shilling per week and of boarding five shillings. The preceptor is Mr. John Hubbard. This academy is so far from discouraging town schools, that the sum of one hundred pounds is annually raised in the same town for that purpose.

There is another academy at Atkinfon, founded by the Honourable NATHANIEL PEABODY Efq. and incorporated by the General Court in the year 1790. The preceptor has been chiefly supported by Mr. Peabody, and he has endowed the academy with a donation of one thousand acres of land.

Similar institutions have been begun at Amherst, at Charlestown and at Concord; which though at present in a state of infancy, yet afford a pleasing prospect of the increase of literature in various parts of the State.

A law has been lately made which enforces the maintenance of schools by a peculiar fanction; the selectmen of the several towns are liable to have the same sum distrained out of their estates, which would be sufficient to support a school, during the whole time in which they neglect to make that provision.

This law is fo recent, that no judgment can as yet be formed of its operation. It shows however that the legislature are attentive to this most important branch of their duty, the education of children.

As a farther evidence of the progress of science, social libraries are established in several towns; and within the year past a medical society has been incorporated by an act of assembly. The President of the State being a gentleman of the faculty, is at the

head of this fociety.

By an article in the constitution of the State it is declared to be 'the duty of legislators and magif- trates, to cherish the interest of literature and the 'sciences, and all seminaries and public schools; to 'encourage private and public institutions, rewards and immunities for the promotion of agriculture, arts, sciences, commerce, trades, manufactures and the natural history of the country; to countenance and inculcate the principles of humanity and general benevolence, public and private charity, industry and economy, honesty and punctuality, incerity, sobriety, and all social affections, and generous sentiments among the people.' As far as public rulers conform to this article, they promote in the most effectual manner, the true interest and prosperity of their country.

The establishment of DARTMOUTH COLLEGE in the western border of the State, has proved a great benefit to the new settlements and to the neighbouring State of Vermont. During the late war, like all other seminaries of literature, it lay under discouragement; but since the

peace, it is in a more flourishing situation.

Its landed interest amounts to about eighty thoufand acres, of which twelve hundred lie contiguous, and are capable of the best improvement. Twelve thousand acres are situate in Vermont. A tract of eight miles fquare beyond the northern line of Stuart town was granted by the affembly of New-Hampshire in 1789; and in the act by which this grant was made, 'the Prefident and Council of the State 'for the time being are incorporated with the trustees of the college, fo far as to act with them in 'regard to the expenditures and application of this 'grant, and of all others which have been or may be hereafter made by New-Hampshire.'

The revenue of the college arifing from the lands, amounts to one hundred and forty pounds per annum. By contracts already made it will amount in four years to four hundred and fifty; and in twelve years to fix hundred and fifty pounds. The income arifing from tuition money is about fix hun-

dred pounds per annum.

The first building erected for the accommodation of the students was a few years fince burned. A lottery was granted by the State for raifing the fum of feven hundred pounds; which has been applied to the erection of a new building, much more convenient than the former. It is constructed of wood, and stands in an elevated situation, about half a mile eastward of Connecticut river in the township of Hanover; commanding an extensive and pleasant prospect to the west. It is one hundred and fifty feet long, fifty feet wide, and thirty fix feet high; and contains thirty-fix chambers for students. The number of students who were graduated in the first nineteen years amounts to two hundred and fiftytwo, among whom were two Indians. In the year 1790 the number of undergraduates was about one hundred and fifty.

The students are divided into four classes. The freshmen study the learned languages, the rules of speaking and writing, and the elements of mathe-

matics.

The fophomores attend to the languages, geogra-

phy, logic and mathematics.

The junior fophisters, beside the languages, enter on natural and moral philosophy and composition.

The fenior class compose in English and Latin; study metaphysics, the elements of natural and po-

litical law.

The books used by the students are Lowth's English Grammar, Perry's Dictionary, Pike's Arithmetic, Guthrie's Geography, Ward's Mathematics, Atkinson's Epitome, Hammond's Algebra, Martin's and Ensield's Natural Philosophy, Ferguson's Astronomy, Locke's Essay, Montesquieu's Spirit of Laws, and Burlemaqui's Natural and Political Law.

Besides these studies, lectures are read to the schol-

ars in theology and ecclefiaftical history.

There is an examination of each class once in the year, and those who are not found qualified for their

standing are put into a lower class.

The annual commencement is held on the fourth Wednesday in August. There are two vacations, one following commencement and continuing six weeks and two days; the other beginning on the fourth Monday in February, and continuing five weeks and five days.

Among the benefactors to Dartmouth College, the

following names are conspicuous.

His Majesty George III. King of Great Britain.

The Earl of Dartmouth.

The late Countess of Huntingdon.

The Prince of Orange.

The Baron of Hafarfwoode.

The late Grand Penfionary of the United Nether-lands.

The late Governor Benning Wentworth.

The late Governor John Wentworth.

Paul Wentworth, Efq.
Dr. Rofe,
John Thornton, Efq.
Mr. Forfyth,
Dr. Ralph Griffith,
The late Dr. Franklin.

John Adams, Vice Prefident
John Jay, Chief Justice

of the United States.

The Hon. John Phillips, of Exeter.

The late and prefent officers and trustees of the college are as follows;

Presidents. 1770. Rev. Eleazer Wheelock, D. D. died 1779, Æt. 69.

1779. John Wheelock, L. L. D. Professor of History. John Wheelock, L. L. D.

---- of Mathematics and Beza WoodNatural Philosophy, ward Efq.

of Languages and Librarian, Rev. John Smith.

His Excellency John Wentworth, Efq. removed.

* Hon. Theodore Atkinson.

* Hon. Daniel Pierce.

Hon. George Jaffrey, resigned.

* Hon. Peter Gilman. * Hon. William Pitkin.

* Rev. Benjamin Pomeroy, D. D.

* Rev. James Lockwood.

Rev. Timothy Pitkin, refigned. Rev. John Smalley, refigned.

* Rev. William Patten.

Hon. John Phillips.

Beza Woodward, Efq.

Hon. John Sherburne, refigned.

Hon. Elisha Paine.

Rev. Eden Boroughs.

Hon. Samuel Phillips, resigned.

Rev. David M'Clure.

Rev. Joseph Huntington, D. D. resigned.

Hon. Simeon Olcott.

Rev. Levi Hart, resigned.

Hon. John Langdon.

* Rev. Sylvanus Ripley.

Moses Fisk, A. M.

* Rev. Bulkley Olcott.

Hon. Peter Olcott.

Rev. John Smith.

Rev. Job Swift.

An Alphabetical TABLE of the Towns in each County of New-Hampshire,

With the dates of their incorporation: The names of the several MINIS-TERS of the GOSPEL of every denomination, the times of their settlement, death or removal, and their age at the time of their death as far as either can be ascertained.

Also,

The number of people in each town in the years 1775 and 1890. The number lost out of each town in the late war, as far as it could be collected. The proportion which each town pays to £.1000 tax. The Literary Academies in each county, and some historical and topo-

graphical remarks.

	Proportion of Historical and tchomachies		part of Haverhill cut off by the line. Indian name Penacock. part of Exeter.	part of Chester.			9 11 Indian name Penacock, granted by ?	Massachusetts, and called Runford. Spart of Nottingham. part of Kingston.	part, of Exeter.
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Towns.	rat- names.	64 Poplin 593 Portskouti - 2d Parish	Episcopal 3d Parish 1782 Pittsfield 1764 Raymond 1719 Rye
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	Proportion of Historical and topographical	Taxes to Remarks.	6. e. d. cut off from Methuen and	5 5 5 part of Kingston.	4 9 4 formerly part of Hampton.		5 5 12 6 formerly part of Hampton.	7 9 11 Swamscot patent, part of it called by the Indians Winicot		69	ES	Names of Preceptors.	William Woodbridge	Denjamin Abbon
	Numbers. Propo	died or remov- age. 1775 1790 in 6. 1000 ed.	1084 1218 31	459 561	607 715		4.98 448	65 1137 882 17 66 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		529 663	LITERARY ACADEMIES	Value of Funds.	£. 10,000	d'inc.
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	Winisters.	names.	1784 Hunting Porter	1759 Josiah Cotton	Samuel Perlay		1745 William Parsons	1718 Henry Russ 1756 Joseph Adams	1786 Jsmes Miltimore	Joh	T	itution. Towns.	Excter	Atkinson Concord
-	Towns.	names. set-	F		1768 Seabrook, P. 1765 Samuel Perlay	ż	1742 S. Hampton. 1743	1693 Streatham 1718 1756	1786 Js			Date of Institution.	1781	1789
-	To	incer- forat- ed.	1750 Salem	1756 S	1768 5		1742 8	1693	,	1741				

COUNTY OF STRAFFORD.

	Historical and tohographical.	Remarks.	f. 6 8 8 1	74 1214 1247 20 10 16 2 formerly part of Dover, called Oyster river.
		died or remov. age. 1775 1790 in E. 1000 ed.		2 2 9
-	ou o	Tax 6. 10	6. 8. 4 4 18 6 6 8. 29 4 4 3 7 7 6 13 14 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 14 13 14 13 14 14 13 14 14 14 14 14 14 14 14 14 14 14 14 14	10 16
	Proportion of	n war.	4 40	50
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		175 1	252 807 (655 2470 273 574 666 1998	214
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	Num	r ag		
		died or removed.	r. 1769 1655 1669 1710 1715 1786	1750 1784 1. 1778
		0 1 0		
	Ministers.	names.	1775 Joseph Prince 1771 David Tenney 1784 Benjamin Balch 1778 Nathaniel Porter 1642 Daniel Maud 1657 John Reyner 1671 John Reyner, jun. John Pike 1711 Nicholas Sever 1771 Nicholas Sever 1777 Jonathan Cushing 1767 Jeremy Belknap 1787 Robert Gray	1718 Hugh Adams 1741 Nicholas Gilman 1748 John Adams 1780 Curtis Co
		set-	775 771 771 784 778 642 657 671 711 717	1718 1741 1748 1780
	Towns.	names.	1727 Barnstead 1722 Barrington Conway Dover	Durham 1766 Eaton
		incor- porat-	1723	176

COUNTY OF STRAFFORD.

Historical and topograpical		formerly Leavit's town. formerly part of Dover and Durham.	formerly part of Dover. first called New Salem.	9 10 called at first Moulton! oro' addi- 6 first called New Garden, [tion.	•
Proportion of	died or remov- age. 1775 1790 in Taxes to add.	2 1 2 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	2 8 8 7 10 10	33 12 23 10 10 6 6 11 6 6 6 11 6 6 6 11 6 6 6 11 6 6 6 11 6	
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	20621	154	592 8881 617 565		-
Numbers.	1775	83 775 3615 954 1029 {51	677 259 233 272	286 554 100 445 052 26 339 1548 2857	
Nun	age.			51	
	died or remov- ed.		3221	r. 1777 1766 1766 1775	
Ministers.	names.	1774 Isaac Smith- 1786 Walter Powers Samuel Hutchins	er m dway r	a a	
	set-	1777	771		1
Tervis.	names.	Effingham 1727 Gilmantown B. 1766 Lee Locations 3. Stark 1. Stark	17.55 Madbury B. William Hoop 17.66 Mercdith B. Sicholas Folso 1778 Mehemiah Or. 1777 Moultonborough 1778 Sanuel Perley 1777 Moultonborough 1779 ference Shaw	1722 Rochester	
, ,	incor- porate	D d	1755	17771 1785	

COUNTY OF STRAFFORD.

Numbers. Proportion of Historical and topographical,	es. died or age. 1775 1790 in	1770 Sanborn Town 1771 Joseph Woodman 450 1587 16 11 14 5 17 13 14 17 15 15 15 15 15 15 15
Ministers.	names.	1770 Sanborn Fown 1771 Joseph Woodman 1765 Sandwich B
	set-	17.30 17.30 17.30
Terms.	names.	170 Sanborn Town 1771 Joseph Woo 1763 Sandwich 2 4 Addition 2 4 4 4 4 4 4 4 4 4
L	incor- frorat- ed.	1765

N. B. The land comprehended in Middletown, New Durham, N. Durham Gore, and part of Gilmantown, Wakefield and Wolfborough is the tract which was called Kingswood, and which Governor Belcher was prohibited from granting before the settlement of the boundary lines,

COUNTY OF HILLSBOROUGH.

	Historical and tepographical	Remarks.	4 originally granted by Massachuscetts, and called Soukegan.						First called Dantzick, joined with Sutton in the enumeration of 1775.
	fo no	.s to	4 . d.	10 to	0 4	3	01 5	20 03	2 2
	Proportion of	Taxes t	6. 8	න න	6 12	-	12 4 13 2 10	5 13	- 63 70
ı	Pro	lost in wan						_	
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	Naubers.	275	73 1428 2369	179	585		285	497	83 130 200
	JN_d	age 1					•		
		died or remove age 1775 1790 in runs to ed.	1784		F. 1778	1. 1774			
	Ministers.	names.	1741 Daniel Wilkins 1779 Jeremiah Barnard 1786 John Bruce	1785 Josiah Badcock	1757 John Houston Phineas Stevens	Samuel Wood		1789 Walter Harris 1739 Josiah Swan	1767 Joseph Kidder 1790 Moses Bradford
		set-	1741 1779 1786	1783	1757	1768		1789	1767
	Towns.	names.	1762 AMHERST 2d Parish	1779 Andover	P.	Bradford	Campbell's gorc	Gore 1765 Dunbarton	- 1763 Duxbury Fishersfield 1772 Frances Town
The Park of the Pa		incor- porat- ed.	176	177	176		177	176	177

COUNTY OF HILLSBOROUGH.

COUNTY OF HILLSBOROUGH.

Proportion of Hestornal and topographical	Remarks.	* joined with Mason in the cnumeration of 1775. first called Perry's town, joined with Fishersheld in the enumeration of 1775. First called Almsbury.		cek. Tuition per week.	o o
oportion of 1	in g. 1000	5. s. d. 7 10 3 7 10 3 1 1 18 10 10 4 10 10 4 10 10 4 10 1		Boarding per week.	SS.
Numbers. Pr	ited or emov- age, 1775 1790 in d.	546 \$61 107 \$38 498 \377 177 \$19 491 747 262 863 837 1924 623 1105 \$21	DEALLES.	recepturs.	John Hubbard Daniel Staniford
Nun	lied or age	r. 1782 r. 1773 r. 1775 r. 1777 r. 1777	LITERARY ACADERILES.	Names of Precepturs.	John Hubbard Daniel Stanife
Ministers.	патсв.	1746 Nottingham-west 1737 Nathaniel Mcrill 1770 John Strickland 1770 John Morrison 1770 Maby * 1779 David Annan 1770 Maby * 1770 Maby * 1773 Jonathan Scarle 1768 Salisbury 1773 Jonathan Scarle 1774 Warner 1774 Warner 1774 Warner 1774 Warner 1774 Warner 1770 Moah Miles 1770 Mahani Livermore 1770 Mahani Liver	LITER	Value of Funds.	L. 1000 L. 800
	cs. set-	m-west 1737 ugh P, 1739 ughslip 1773 ud B. 1782 B. 1783 CQ. 1763 vcen Pc. 1763 gh and ough.		Towns.	New-Ipswich Amhersk
Towns.	incor- front- rames.	1746 Nottingham-west P. 1760 Peterborough P, 1760 Raby * 1765 Salisbury 1764 Salisbury 1768 Sutton 1774 Warner 1764 Warner 1764 Warner 1765 Wilton Land between Peterborough and Lyndeborough.		Date of Institution.	1789

COUNTY OF CHESHIRE.

	Historical and topographical	Remarks.	1 15 10 18 first granted by Massachusetts and called Number four. 1 16 7 4 18 7 5 17 5 17 10 6 mumeration of 1775. 3 1 9 joined with Chestel field in do. 1 15 7 7 12 5 7 12 5 9 19 6 first granted by Massachusetts and called Upper Ashuelor.
	fo no:	1775 1790	6 18 15 10 6 18 5 17 10 6 18 7 11 16 7 1 10 10 10 10 10 10 10 10 10 10 10 10 1
	Prohortion of	in gran.	0 1
	7	17.90	594 1093 874 1905 523 1435 523 1435 309 982 143 537 305 901 1038 178 298 351 1255 756 1314
1	Numbers.	1778	
	Nu	died or remov- age.	1788 1773 1775 1776 1776
		died or removed.	r. 1788 r. 1773 r. 1775 r. 1775 r. 1747
	Ministers.	set. names.	1789 Thomas Archibald 1781 Jacob Mann 1789 Levi Lankton Samuel Mead John Dennis 1760 Bulkley Olcott 1772 George Wheaton 1774 Augustine Hibbard Ranna Cossit 1768 Fames Welman 1768 Jacob Haven 1777 Edward Spirague 1777 Benjamin Brigham 1763 Bunker Gay 1752 Jacob Bacon
	Towns.	incor- porat- et.	4766 Acworth 1762 Alstead 1753 Charlestown 1754 Chesterfield 1764 Claremont F65 Cornish 1775 Fitzwilliam* 1777 Dublin 1775 Fitzwilliam* 1775 Hinsdale 1765 Gilsum 1773 Affrey

COUNTY OF CHESHIRE.

Historical and tohographical	Remarks.				first called Limerick.	10 S grantedby Massachuset sand called Lewer Ashuelot.
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£	10001	£. 8. d.	117 118 118	13 13	7 14 3 8 3 12	010
ion	Taxes to	.3	104-1	445-8	r 00 00	- 00
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	75 1:		128 322 207 74	157 780 186 721 308 1024 210 864 1380	542 1143 224 .701 215 448	647 1157
Sers.	12		<u> </u>		र देश	9
Numbers.	age]				
,	died or remov- ed.	r. 1772	r. 1780	r. 1791	r. 1780 r. 1788	
	dic ren ed.	<u> </u>		<u> </u>	_=====	<u> </u>
Ministers.	names.	1753 Ezra Carpenter 1761 Clement Sumner 1773 Aaron Hall	1787 Elias Fisher 1778 Ioseph Cumming Eleazer Beckwith	John Ramele Jacob Foster ————Carpenter Maturin Bellow	765 Seth Deane 1782 Seth Payson	Timothy Harrington
	set-	1753 1761 1773	1787	18	1765	1755
Towns.	names.		1787 Langdon 1761 Lempster 1776 Marlborough 1761 Marlow B.		B. Rindgo 1768 Rindgo 1774 Stoddard 1769 Sures	Sullivan 1753 Swansey
	frorat-		178	176	171	1

2 dollars per quarter.

4s. for Children. 6s. for Adults.

Lennel Hedge

Charlestown

1791

COUNTY OF CHESHIRE.

. 1				first called Cambden	first called Saville.					Boarding her week.
00015	§. 8. d	2 18 10	9 4 11	(C)	8 6 1	10 4 11	c	0		Boarding
1000 age 1775 1790 in tear		146 538	658/1245	165 545	65 267	758 2018		20021002	Y ACADEMY.	Preceptor.
names. rem		Edward Goddard	Thomas Fessenden	George Lesslie	Nehemiah Woodward	William Goddard r. Ebonezar Bailey			LITERAR	Value of funds.
ser- led.	-	1700	1767		~	and 1764			,	Точи
rat-		763 Unity	Walpolo	776 Washington	784 Wendwell 1	752 Westmorek	e e	755 Winchester		Instituted.
	namos. 'led.	names. 'led. names.	names. 1cd. names. 1769 Edward Goldard	mames. 16d. names. Tonity Walpolo 1765 Edward Goddard Unity Total Goddard Thomas Seconden	mames. 1cd. names. Tool Edward Goldard Unity Walpolo 1767 Thomas Fessenden Washington 1777 George Lesslie	Unity Walpolo I769 Edward Goddard Walpolo I767 Thomas Fessenden Washington I779 George Lesslie Wendwell B. Nebemiah Woodward	Unity Washington Westmoreland W	Tames. 1769 Edward Goddard	Unity Walpolo IT66 Edward Goddard Unity Walpolo IT67 Thomas Fessenden IT64 Wellium Goddard IT64 Willium Goddard B. Joseph Ashley Joseph Ashley IT64 Micah Lawrence	Unity Washington Westmoreland Westmoreland Winchester Winchester Washington Westmoreland Westmoreland Westmoreland Westmoreland Winchester Winchester Winchester Washington Westmoreland Westmorelan

COUNTY OF GRAFTON.

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	Towns.		Ministers.	_	Numbers.	-	Prep	Preportion of	Historical and topographicas
incor- frorut- ed.	names.	set-	патез.	died or remove age. 1775 1790 in car.	1775	790 in	1	Taxes to	Remarks.
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176	1769 Bath Bridgewater		٩		144	193	0	11 11 11 17 2	cerporated.
177	60 _				061	394	63	10 3	
176	1761 Canaan B. 1767 Chatham	1785	1785 Thomas Baldwin	r. 1790		483	6.5	,	V
176	1766 Cockermouth	1790	1790. Phomas Page		4 80 4	378		0 0 0	
176	1764 Coventry 1784 Dalton				50	8(15 6	first called Apthorpe.
176	1761 Dorchester				r	175		10 3 5	joined with Lime in the enu- meration of 1775.
176	1761 Enfield 1774 Errol				50	724	4,	10 3	first called Relhan.
921	763 Fairfield			_			-	10 3	first called Peeling.

COUNTY OF GRAFTON,

n of Historical and tonographical		d. 8. 12 10 3 now called Morristown. 1 3 10 4 2 called Lower Cohos. 13 10 10 5 11 2 4 4 4 4 4 5 part of Apthorpe.	3 called Traner Coho.
Proportion of	lost Taxes to in 6. 1000		10
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	cenev - age. 1775 1796 in ed.	7.44.8 7.64.8 8.65.8 1.80.8	117
7.8.	75	29 72 403 403 440 147 147 147 147 147 147 147 147 147 147	
Numbers.	e. 17	8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8	
14	93.0		
	removed.	1790	
Ministers.	names.	Diver Williams Eden Boroughs Samuel Colins John Smith 1765 Peter Powers Robert Fowle Feremiah Ward 1772 Josiah Potter Jedidiah Hibbard 1775 William Conant	10 C C C C C C C C C C C C C C C C C C C
	set-		
Teams.	incor- porat- rames.		1779 Northumberland

COUNTY OF GRAFTON.

Historical and topographical	Rouarks.	first called Cardigan. * joined with the Piermont in the enumeration of 1775. joined with Orford in ditto.
1	000	2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3
Proportion of	1 (6. 10	
Proj	died or remov 18c. 1775 1790 in Taxes to ed.	10444444444444444444444444444444444444
Numbers.	1775	232 168 382 237 41 41
Num	7- 18c.	- -
	died o	C. 1777
Ministers.	names.	1771 Obadiah Noble 1787 John Sawyer John Richards 1765 Nathan Ward Thomas Niles Cotton Haynes Experience Esterbrook
	set-	1771
Towns.	names.	1769 Orange 1761 Orford 1774 Percy 1764 Piermont 1763 P.Lymou'TH 1767 Rumney B. 1776 (addition) 1778 Stratford 1778 Stratford 1778 Success 1781 Thornton 1769 Trecothick 1769 Trecothick 1763 Warren* 1766 Wentworth
7	incor- forat- cd.	1765 1771 1767 1767 1768 1775 1775 1775 1775 1775 1775 1775 177

The principal denominations of christians in this State are five, viz. Congregationalists, Presbyterians, Episcopalians, Baptists and Quakers. The distinguishing characteristics of these are so well known that a particular description is needless; the comparative numbers of each may be seen by an inspection of the preceding table; in which the Presbyterians are marked by the letter P. the Episcopalians by E. the Baptists by B. the Quakers by Q. Those without any mark are Congregationalists; which is the most numerous denomination in this as well as in the neighbouring States of Massachusetts and Connecticut.

In the town of Portsmouth there is a society of Sandemanians and another of Universalists; which are not noted in the table.

The people in general throughout the State are professors of the christian religion in some form or other. There is, however, a sort of wise men, who pretend to reject it; but they have not yet been

able to fubstitute a better in its place.

It has been a common practice, in all the grants of townships, which have been made either by the Crown or the Masonian proprietors, to reserve one share, equal to that of any other grantee, for the first settled minister, as his own right; besides a parsonage lot. This has proved a great encouragement to the settlement of ministers in the new towns; and it has been generally observed that those towns are the most thriving, in which early care has been taken to settle a prudent minister, and assist him in clearing and cultivating his land.

In fome of the new towns, where the people are not able to support ministers, it has been usual for the clergymen of the elder towns to make itinerant

^{*} For an account of these distinctions see a "view of religions" by H. Adams, lately reprinted in Boston.

excursions, of several weeks, to preach and baptize; whilst their places at home have been filled, by the neighbouring ministers in rotation. Such itinerations are always acceptable, to the scattered people in the wilderness, and serve to keep up a sense of religion in their families. By the constitution of the State every denomination of christians is equally under the protection of the law, and it is expressly provided, that 'no subordination of any one sect 'or denomination to another, shall ever be established by law.'

It is also claimed and allowed as a right of the people, to elect and support their own teachers; and that 'no person of any one particular religious sect 'or denomination shall ever be compelled to pay 'toward the support of the teachers of any other sect 'or denomination.' There is therefore as entire religious liberty in New-Hampshire, as any people

can rationally defire.

C H A P. XVIII.

Conclusion. Hints of Advice on several important Subjects.

CITIZENS OF NEW-HAMPSHIRE,

MAVING spent above twenty years of my life with you, and passed through various scenes of peace and war within that time; being personally acquainted with many of you, both in your public and private characters; and having an earnest desire to promote your true interest, I trust you will not think me altogether unqualified to give you a few hints by way of advice. You are certainly a rising State; your numbers are rapidly increasing; and your importance in the political scale will be augmented, in proportion to your improving the natural advantages which your situation affords you, and to your cultivating the intellectual and moral powers of yourselves and your children.

powers of yourselves and your children.

The first article on which I would open my mind to you is that of education. Nature has been as bountiful to you as to any other people, in giving your children genius and capacity; it is then your duty and your interest to cultivate their capacities and render them serviceable to themselves and the community. It was the faying of a great orator and statesman of antiquity,* that 'the loss which the 'Commonwealth sustains, by a want of education, 'is like the loss which the year would suffer by the 'destruction of the spring.' If the bud be blasted the tree will yield no fruit. If the springing corn be cut down, there will be no harvest. So if the youth be ruined through a fault in their education.

the community fustains a loss which cannot be rerepaired; 'for it is too late to correct them when they are spoiled.' Notwithstanding the care of your Legislators in enacting laws, and enforcing them by fevere penalties; notwithstanding the wife and liberal provision which is made by some towns, and some private gentlemen in the State; yet there is still in many places 'a great and criminal neglect of education.' You are indeed in a very confiderable degree better, in this respect, than in the time of the late war; but yet much remains to be done. Great care ought to be taken, not only to provide a support for instructors of children and youth; but to be attentive in the choice of instructors; to see that they be men of good understanding, learning and morals; that they teach by their example as well as by their precepts; that they govern themfelves, and teach their pupils the art of felf-government.

Another fource of improvement which I beg leave to recommend, is the establishment of focial libraries. This is the easiest, the cheapest and most effectual mode of diffusing knowledge among the people. For the fum of fix or eight dollars at once, and a finall annual payment beside, a man may be fupplied with the means of literary improvement, during his life, and his children may inherit the bleffing. A few neighbours joined together in fetting up a library, and placing it under the care of fome fuitable person, with a very few regulations, to prevent careleffness and waste, may render the most essential service to themselves and to the community. Books may be much better preferved in this way, than if they belonged to individuals; and there is an advantage in the focial intercourse of persons who have read the same books, by their converfing on the fubjects which have occurred in theirreading and communicating their observations on to another.

From this mutual intercourse another advantage may arise; for the persons who are thus affociated may not only acquire but originate knowledge. By fludying nature and the sciences, by practifing arts, agriculture and manufactures, at the same time that they improve their minds in reading, they may be led to discoveries and improvements, original and beneficial; and being already formed into fociety; they may diffuse their knowledge, ripen their plans, correct their mistakes, and promote the cause of science and humanity in a very confiderable degree.

The book of nature is always open to our view,

and we may study it at our leisure; 'Tis elder scripture, writ by God's own hand.' The earth, the air, the fea, the rivers, the mountains, the rocks, the caverns, the animal and vegetable tribes are fraught with instruction. Nature is not half explored; and in what is partly known there are many mysteries, which time, observation and experience must unfold. Every social library should be furnished with books of natural philosophy, botany, zoology, chymistry, husbandry, geography and aftronomy; that inquiring minds may be directed in their inquiries; that they may fee what is known and what still remains to be discovered; and that they may employ their leifure and their various opportunities in endeavouring to add to the stock of science, and thus enrich the world with their observations and improvements.

Permit me also to give you some hints in rural economy. Your lands often fuffer for want of manure, when you have vast quantities provided by the bountiful hand of nature. The mixing of foils, and the draining of bogs might yield immense profit. The labour, though formidable at first view, yet, being refolutely entered upon and purfued, will be as fatisfactory, as the effects will be lasting and beneficial. You have in many places great quantities of marle which will enrich your land for ages; your swamp mud, carried up to the higher and lighter ground, and mixed with the dung of cattle, would increase your quantity of manure in a most surprising degree. Many of you I presume have yet to learn, that a great part of the nutriment of vegetable substances, is derived from the air, and that the soil itself is enriched by that means. When you lay down your worn out lands, if you sow them with clover or other grasses, they will be sooner recruited than if you leave them to bear only the weeds, which may accidentally spring up; and if you plough in the green crop, you will promote their fertility, in a much greater degree.

The tow which is made by the dreffing of flax, and which children are indulged in burning for their diversion, would furnish the paper-mills with useful materials; and the skins of sheep and lambs which are often thrown away, would contribute to the manufacture of wool-cards and the binding of books. By an attention to such comparatively small matters, great savings might be made, and various kinds of artificers might be supplied with the means of carrying on their respective occupa-

tions.

Suffer me to add a few words on the use of spiritous liquor, that bane of society, that destroyer of health, morals and property. Nature indeed has furnished her vegetable productions with spirit; but she has so combined it with other substances, that unless her work be tortured by fire, the spirit is not separated, and cannot prove pernicious. Why should this force be put on nature, to make her yield a noxious draught, when all her original pre-

parations are falutary? The juice of the apple, the fermentation of barley, and the decoction of spruce are amply sufficient for the refreshment of man, let his labor be ever so severe, and his perspiration ever so expensive. Our forefathers for many years after the fettlement of the country, knew not the use of distilled spirits. Malt was imported from England, and wine from the western or Canary islands, with which they were refreshed, before their own fields and orchards yielded them a sup-ply. An expedition was once undertaken against a nation of Indians,* when there was but one pint of ftrong water (as it was then called) in the whole army, and that was referved for the fick; yet no complaint was made for want of refreshment. Could we but return to the primitive manners of our ancestors in this respect, we should be free from many of the disorders, both of body and mind which are now experienced. The disuse of ardent spirits would also tend to abolish the infamous traffic in flaves, by whose labour this baneful material is procured.

Divine Providence feems to be preparing the way for the destruction of that detestable commerce. The infurrections of the blacks in the West-Indies have already spread desolation over the most fertile plantations, and greatly raised the price of those commodities which we have been used to import from thence. If we could check the consumption of distilled spirits, and enter with vigour into the manufacture of maple sugars, of which our forests would afford an ample supply, the demand for West-India productions might be diminished; the plantations in the islands would not need fresh recruits from Africa; the planters would treat with humanity their remaining blacks, and render them

^{*} The Pequods, in 1637

fufficiently prolific to fupply them with a fuccession of labourers; the market for slaves would become less inviting; and the navigation, which is now employed in the most pernicious species of commerce which ever disgraced humanity, would be turned into some other channel.

Were I to form a picture of happy fociety, it would be a town confisting of a due mixture of hills, valleys and streams of water: The land well fenced and cultivated; the roads and bridges in good repair; a decent inn for the refreshment of travellers, and for public entertainments: The inhabitants mostly husbandmen; their wives and daughters domestic manufacturers; a fuitable proportion of handicraft workmen, and two or three traders; a physician and lawyer, each of whom should have a farm for his support. A clergyman of any denomination, which should be agreeable to the majority, a man of good understanding, of a candid disposition and exemplary morals; not a metaphysical, nor a polemic, but a serious and practical preacher. A school master who should understand his business and teach his pupils to govern themselves. A focial library, annually increasing, and under good regulation. A club of sensible men, feeking mutual improvement. A decent mufical fociety. No intriguing politician, horse jockey, gambler or fot; but all fuch characters treated with contempt. Such a fituation may be confidered as the most favourable to social happiness of any which this world can afford.

APPENDIX.

No. I.

An original Letter of Doctor Cotton Mather to George Vaughan, Esq. agent for New-Hampshire in England; relaxing to Wheleright's Indian deed. Vol. I. p. 10.

3d. 1 mo. 1708.

SIR,

YOU demand my thoughts upon the date of the inftrument in which the Indian Sachems of Pascataqua convey to Mr. Whelewright and his friends the country, whereof your people are the present possessor. How a date in the year 1629 could consist with the true time of Mr.

'Wheleright's coming into this country?'

I cannot but admire at the providence of Heaven, which has all along flrangely interposed, with most admirable dispensations, and particularly with strange mortalities, to stop the proceedings of the controversy about Mason's claim upon you, just in the most critical moment of it.* There seems to have been as remarkable a display and instance of that Providence, in the finding of this instrument just before the sitting of your last court, about this affair; and after it had been, for very many years, discoursed of among the good men who knew of such an instrument; but with regret concluded it lost and gone beyond all recovery.

I fuppose you are making your application to those, who will be far from the opinion that dominion is sounded in grace. Titles to lands are not more or less valid according to the profession of

^{*} Referring to the death of Robert Mason in 1688, and of Samuel Allen in 1705.

christianity in the owners. There is no protestant but what will acknowledge that pagans have titles that are incontestable, and that they have not, by their paganism, forfeited their titles to the first christians that shall therefore pretend to them.

Let the date of Whelewright's instrument be what it will, there seems to be an instrument of some such importance on Mason's part, necessary to render Ma-

fon's claim effectual.

When the Kings of England have given patents for American lands unto their subjects, their virtue and justice has been such, that they have not therein designed ever to give away the properties of the ratives here; but always intended that their subjects here should honestly agree with the natives, for what lands they should get under the protection of these patents, before they should call them their own Briefly, you expect a decision of your case, where Indian titles will have a due consideration.

confess when I was first informed of the date which your instrument bears, I thought that it must be a forgery, but I must now give you my second

thoughts upon it.

The very aged gentlewomen, his two daughters, I bok upon as very incompetent witnesses to deternine the time of their father's first coming over into America. I have discoursed with the more sensible and capable of them, namely, Mrs. Pierson, whotells me that her father's coming over with his samely was in the same ship with Mr. Samuel Whiting, the minister of Lynn, and others, who, we are al sure, came in the year 1636,* but she tells me she is not sure her father never visited America before, only she does not remember she ever heard him speak of it. And yet there are shrewd indica-

^{*} Mr. Wheleright is first mentioned in Winthrop's journal in 1636, as brother to the samous Anna Hatchinson, the patroness of Antinemian tenets.

which they tell us of; I fuppose you are furnished with them.

Your instrument cannot be linvalidated, but by some demonstration that Mr. Wheleright was at home in Lincolnshire, all the year 1629. We know there were many voyages taken, between England and these parts of America, before that year? In the year 1624, we find Mr. Roger Conant managing a plantation, very little to the southward of Parscataqua. It is no improbable thing, that such an active and lively man as Mr. Whelewright, might step over hither to see how the land lay, before his a ransportation of his family.*

The instrument of 1629, has upon it such arrefragable marks of antiquity, that if it be a forgery, it must be a very ancient one. It has almost as many marks of 1629 as there be years in the number, of which you need no recitation of mine; you are much better able than I am, to amplify upon them.

About an hundred and twenty years ago, there were found certain manuscripts, in some vaults, near Granada, in Spain, which, it was affirmed, were sifteen hundred years old; and they sang te deum for the discovery. But the Dominicians presently discovered them, from the language and the intent of them, to be a modern fraud of the Franciscans. All the wit of man cannot perceive the least symptom of a modern fraud in your instrument. The gentleman who lit upon it, is as honest, upright and pious a man as any in the world, and would not do an ill thing to gain a world. But the circumstances of the instrument itself, also, are such, that it could not be lately counterfeited. If it were a forgery, Mr. Whelewright himself must be privy

to it. But he was always a gentleman of the most unspotted morals imaginable; a man of a most unblemished reputation. He would sooner have undergone martyrdom, than have given the least con-

nivance to any forgery.

There was a time, in the year 1637, when he was perfecuted with too much violence, in the Maffachufetts Colony, but it was only for a diffurbance made about certain speculations, which were thought to be of an antinomian tendency. His worst enemies never looked on him as chargeable with the

least ill practices.

The blinding heat of those troubles procured an order for his remove out of the colony. 'Tis remarked in the books then published, that he did not go to Rhode-Island, the most inviting part of the country, whither all they went who were censured at the same time with him. No, he removed then into Hampshire, which would invite one to think that he had a peculiar interest in that Province.

I have heard, that when he was a young fpark at the University, he was noted for a more than ordinary stroke at wrestling; and that afterward waiting on *Cromwell*, with whom he had been contemporary at the University, Cromwell declared to the gentlemen then about him 'that he could remember' the time when he had been more afraid of meeting Whelewright at football, than of meeting any 'army since in the field; for he was infallibly sure 'of ing tript up by him.'

now not whether the inftrument of his now, your hands, will have as good an efficacy as the owner had. You will doubtless think it has, if, in wrestling with your adversaries, it trip up their cause, and give them a fall. I should abhor, that the cause of my best friends, and a very good cause, ever should be served by any indirect means; yet

I verily think this inftrument ought very much to be confidered, and to have a very great weight allowed unto it.

Sir, I wish you a good voyage, and a good iffue,

and fubscribe,

Your fincere fervant, CO. MATHER.

P. S. I forgot to tell you that when my parent lay at Plymouth, bound for New-England, on March 24, 1691-2, Mr. Sherwell, a minister then living there, told him that his grandfather and one Mr. Coleman and another, had a patent for that which Mr. Mason pretended unto at Pascataqua. You may do well to inquire further concerning it.

No. II.

Lieut. Governor Vaughan's Speech at the Council Board, Sept. 24, 1717: (Vol. II. p. 22.)

GENTLEMEN,

YOU cannot but believe that I am informed of many things spoken to my prejudice. When private whispers, defamatory to me are handed forward, I pass them over with slight and difregard, and believe that every thing hitherto designed against me has turned to my advantage, and will still do so. But when matters are carried farther, wherein the honor of the Crown, and the interest of the King's Majesty is especially struck at; when revenge's mother utters bold challenges, raiseth batteries, and begins to cannonade the powers established by my sovereign, I acknowledge myself alarmed, which I shall in no wife tolerate or endure; as I am honored of the King, I will do my utmost to sup-

port it, and not let his commission be vilified at the rate fome will have it. To have a due deference paid to it, is what the King requires and expects, efpecially from his ministers; and to have them studious of lessening the authority therein granted, is an aggravated fault, and I cannot but wonder at the arrogance and pride of those who do not con-sider I am a superior match, as being armed with power from my Prince, who doth execution at the utterance of a word, and I hope none will be fo fturdy as to dispute it. If I foar too high, the fall will not crush them: If they run too fast, their repentance may be timely. What I have to fay to you, Mr. Penhallow, is in grofs, and is, that your bufiness, for a long time, has been to fow discord in the Commonwealth, and your endeavours to propagate confusion and difference in each town within the government; when avowed principles oblige you to fodder, as much as in you lies, the affections of magistrates and people, thereby to divert all things which naturally produce diffentions, tumult and feuds, the particulars I have, and shall transmit to my Lord the King, in whose name, and by virtue of whose power, I fulpend you, Samuel Penhallow, from sitting, voting, and affisting at the Council Board, till his Majesty's pleasure shall be known.

No. III.

An original Letter from Sir William Ashurst to Dr. Increase Ma-

REV. SIR,

HAVE your letter of 12th August last, which I would have sooner answered, but that I understood that there has no ship gone to you this winter. I am pleased at what you write of your

Lieutenant Governor, that he acquits himself worthily, and is a friend to the civil and ecclefiaftical constitution. I affure you, if I had not known this to be his character (not from your agent, but from other impartial and difinterested hands) you had never feen him in that station. I have no personal difrespect to Col. Tailer; on the other hand I wish him in his private capacity much happiness and profperity for his deceafed uncle's fake, whose memory I esteem and value; but when the interest and welfare of the public is before me, I never suffer myself to be influenced by any partial confiderations; and who can think it proper, that the second post in the government should be filled by one who not content with diffenting from the established churches by his constant practice, did engage, at the head of a party in a concerted defign, to subvert their foundations?

I do not know but fuch a procedure may recommend him to some people, but it must needs disqualify him to you and me, who know on what principles New-England was first settled, and what were the pious motives which prevailed on the first planters to forsake their native land, and plant a wilder-

ness.

I hope I have done as well, in getting the Lieut. Governor of New-Hampshire displaced, who presented a memorial, when he was here, to the King and ministry, to bring New-England into the land tax of Great-Britain, and proposed, that a receiver should be appointed by the Crown, to gather in the money. For a native of New-England to be the author of such a memorial, is a monstrous offence; and if you suffer such people to be easy among you, yet they shall never escape my resentment while I have any interest or power at Court.

I am very glad that you are still useful in your advanced age. To preach constantly at fourscore,

and to fo large an audience, and without notes, is a rare example, and scarcely to be found in history. For myfelf, I am ten years thort of you, yet I think I have great acknowledgments to make to divine Providence, for the measure of health I enjoy, and the opportunities I have of being yet ferviceable in feveral flations. I conftantly attend at the excise office, where I have the honor to fit as a commissioner, and at the court of aldermen, where I am the fenior in rank, though not in years. Besides these employments I have vacant hours for the fervice of my country in general, and my friends in particular; but I can tell you with a great deal of truth that no part of my life has given me more satisfaction than that wherein I have served the interest of New-England, efpecially my favourite work, the propagation of the gospel among the natives, in which disposition I hope I shall continue to my life's end.

I refer you to the prints for public news. You'll hear various reports about the unhappy divisions in the royal family; which all good men are forry for. I have nothing to say upon that subject, only that the King acts in every thing with a prudent and steady resolution becoming the character of a great

and wife prince.

I am, Sir, your affectionate friend, and fervant,

W. ASHURST.

London, March 10, 1717-18.

No. IV,

The humble Apology of the People of Nutfield to his Excellency Samuel.
Shute, General, Governor and Commander in Chief of his Majesty's
Provinces of the Mussachusetts Bay and New-Hampshire in NewEngland.

May it please your Excellency,

THE fubscribers having seen a copy of your Excellency's letter to Captain White and Captain Kimbell, find themselves under a necessity of vindicating themselves from the charges given in against them; it being allowable by the law of nature and of nations, to the greatest criminals to defend themselves when they justly plead in their own vindication. We were furprifed to hear ourfelves termed Irish people when we so frequently ventured our all for the British crown and liberties against the Irish papists, and gave all tests of our loyalty which the government of Ireland required, and are always ready to do the fame here when demanded. Though we fettled at Nutfield, yet we used no violence in the manner of our fettlement, feeing no body in the leaft offered to hinder us, to fet down in a defolate wilderness; and we were so far from hindering the English that really had a mind to plant with us, that many of them are now incorporated with us. After our fettlement we found that two or three different parties claimed Nutfield, by virtue of Indian deeds, and we were given to understand, that it was necessary for us to hold the foil by some right purchased from the natives. Accordingly we made application to the Hon. Col. Wheelwright of Wells, and obtained his Indian right; which we have to shew. His deed being of ninety years standing, and conveyed from the chief

Sagamores between the rivers of Merrimack and Pafcataqua, with the confent of the whole tribes of the Indian nation, and well executed, is the most authentic we have feen; and the fubscribers could not in reason think that a deed which is not twenty years old, of land which is not fufficiently butted and bounded, from an obscure Indian, could give any right to land which had been fold fo many years before, by the right owners. And the fubscribers hope they will be excused from giving away so good a title, for others that cannot pretend rationally to be fo well supported; and which they always refused to warrantee and make good against other claims. The dutiful applications which we have made to both courts, if we be incorporated, in whatfoever province we fall to be, will witness for our respect to his Majesty's government. If affidavits have been given against one of our number as using fome threatening expressions, we hope it will not be imputed to the community. If our accusers be permitted to come up in troops, as they have done and violently demolished one of our houses, and destroyed part of our hay, and threatened and infulted us with impunity, to the great terror of our wives and children, when we fuffered patiently, and then accuse us to our rulers of violence, injustice, fraud, force, infolence, cruelty, dishonour of his Majesty's government, and disturbance of his Majesty's subjects, injuries and offences to the English, and the like, when we know ourfelves to be innocent, we think it hard measure; and must have recourse to God, who forbiddeth to take up a bad report against our neighbour, and will, we hope, bring forth our righteoufness as the light, and our judgment as the noon day. If we be guilty of these disorders, we know we are liable to a legal trial, and are not fo weak as to suppose ourselves to be out of the reach of your Excellency's government. The subscribers hope that if any other accusations come in against them, they will be allowed an equal hearing before they be condemned; and as we enjoy the liberty of the gospel here, which is so great a mercy, shall improve it, for God's glory; and as he has taught us, be dutiful to his Majesty's government, set over us, and, if possible, live peaceably with all men, shall be desirous of peaceable neighbours, that want to fettle with us, and to help us to subdue a part of this vast and uncultivated wilderness; and shall not cease to pray for the divine blessing on your Excellency's person and government.

Done at Nutfield, Feb. 27, 1719-20, and fubfcribed by

fubfcribed by

JAMES M'GREGORE, &c.

No. V.

An original Letter of Governor Shute to Mr. Penhallow. Boston, Feb. 2, 1718-19.

SIR,

DR. COOKE having again over his cups treated me very fcandalously, I have complained to the council who I don't question will do me justice.

It will be of fervice to me to have a certificate to shew bow drunk he was that night that he and Col. Goff broke into our company at young Gerrish's, for I remember that you and Mr. Bridger told me that he stay'd so long after we were gone, as to get so drunk that he cou'd neither go nor sland; if this be strongly certified, I believe it will give him a good lift. Pray my service to the Lieut. Governor, the council and your family.

I am, Sir, your humble fervant, SAMUEL SHUTE.

No. VI.

To his Excellency Jonathan Belchen, Esq. Captain General and Commander in Chief in and over his Majesty's Province of New-Hampshire in New-England. To the Honourable the Council and Representatives in General Court assembled, The Complaint and Petition of Hugh Adams, Clerk, the Gospel Minister and Pastor of the Church at Durham within said Province,

HUMBLY SHEWETH,

FORASMUCH as your complainant petitioner hath been more than one and twenty years last past a labourer in the word and doctrine of Christ fincerely to the utmost of his ability amongst that people, although the good laws of this faid province so far have required of them; and their own contract or agreement with him, voted by them in the first week of the month of April. anno 1717, as by a copy of the record of Oyster river parish or said town, as also by the evidences of some of their then select men and committee may appear in order for his support, with a competent falary of one hundred and four pounds during his ministry there, even then when filver money was not of more value than ten shillings per ounce annually, to be paid as then understood in the real value thereof, and not only in the bare name of fo much, and unanimously agreed by their then committee, to be paid punctually each year, one half of faid falary, i. e. £52 at the end of or within each fix months, i. e. the first week in October and April, with other material articles of faid agreement for his maintenance among them, which also hath obliged them thereunto, yet have they not in any one year of faid time of three apprenticeships fince their faid contract, been honest nor faithful by the pay-

ment thereof in the just value, nor in due feafon, for as that the hire of his ministerial labours fo much and long being kept back by their facrilegious fraud, hath been crying in the ears of Christ the Lord of fabbaoth, fo to expose them and their covenant and filent neighbours in this faid province, unto the curse denounced which hath been so long and often executed in fuch a variety of destroying, terrifying and impoverishing judgments of God, too many herein to be enumerated, and fo much thereof evidently occasioned by faid parish and town, being therein fo long tolerated with impunity, as an Achan in the camp; and as the feven fons of Saul, in the days of King David; and as Jonah in the ship of the commonwealth of this province aforesaid. And especially whereas the principal article in the faid contract infifted on by their faid minister, wherein their then felect men and committee agreed, by manual vote and voice (nemine contradicente) but was not entered by their then parish clerk, John Smith, who deceased anno 1722, with or after the other articles hereof in the record rolls of their then parith of Oyster river, or since town of Durham, and since yearly on very servent intreaties to have the fame articles entered upon their records and observed for the yearly performance thereof for the future, whereunto nevertheless they have been in-exorable beyond all reason and justice, hitherto in difregarding said above hinted article, viz. That each year one half of faid falary of £104, which is £52, should be paid in to him or his order at or before the end of each fix months or half year, i. e. the first week in October and April, which committee vote or vow of theirs, has never yet, in any one year of the twenty-one years of my ministry amongst them, been performed: But mostly defer-red until at least three months after said former half

year's harvest was ended, when the price of provifions was raifed at least twenty-five per cent. dearer than at harvest or in gathering thereof; which delinquency of theirs in faid twenty-one years hath been to the damage of faid minister above £520 in faid parish and town, especially where he has been necessitated, rather than starve, to borrow confiderable fums of money upon fix, ten, fifteen and twenty per cent. interest yearly, and running on interest upon interest, yet unto this day, to his impoverishing oppression, and sinking discouragement; and reduced his falary of £104 of late years to the name thereof, when in prefent value as the altered prices of all necessaries for livelihood are about two hundred per cent. dearer than when their faid contract was made. His falary now is scarce more in real worth than £36 each year, although their rateable heads, families, cattle and lands have increased treble their ability more than at first agreement. Alfo this year, 1738, the majority of faid Durham inhabitants have stopped their ears at the cry of the poor at their two publick town meetings, although it is threatened they shall cry themselves but shall not be heard.

Therefore now the oppressing necessities of the complainant petitioner constrain him to pray he may be regarded by this great and General Court assembled in these his following requests, as Christ Jesus Immanual, to encourage each of his faithful ministers, testifyeth saying, 'He that heareth you, heareth me.'

1. Request that the records of said parish, named Oyster river, and now chartered town of Durham, may be so far impeached as that the said article may be entered by the present town clerk, Lieut. Samuel Smith; and accordingly that he may be summoned to bring Durham's town-book of rolls,

Hh

and likewise Capt. Francis Matthews, the former town clerk, to bring the record rolls of said Oyster river parish if yet in his possession; and likewise Lieut. Abraham Bennick and Mr. Sampson Doe, then of the selectmen and committee for said parish in that year 1717, to give in or renew their oath or affidavit, each of them for confirming the truth of said article.

2. Request that the petitioner's said salary of £104 may be enacted for the future during the remainder of his ministry in said town, to be made good in sull value as really as in name, and to be paid in due season according to the request and article aforesaid, with sufficient penalty for any delinquency thereof, which, as written in the divine law moral, is the sifth part of the principal, to be added unto it as evident from Lev. v. 15, 16. Num. v. 6, 7, 8.

3. Request that delinquency from the payment of any lawful settled minister's falary within said province, may be enacted a criminal case, or matter presentable by any grand juror, upon complaint made to him at each or any court of sessions quarterly, as in the Massachusetts province government, which I perceive by Psalms xli. 1, 2, 3, is the principal reason why they have been hitherto proportionably spared from the throat pessionee and other im-

poverishing, more than New-Hampshire.

4. Request that Daniel Davis of said Durham, may be summoned and judged by this most Honourable Court of New-Hampshire province aforesaid, for his sundry years, trespassing upon and inclosing within his sence and detaining so forcibly from said minister several years previous possession thereof, sundry acres of upland, and salt marsh and thatch bed, belonging to the glebe land or parsonage, possessed by, improved for, as also granted to,

the minister of faid parish or town at least fixty years, and for evidence thereof, that Capt. Francis Mathews and his next neighbour Jonathan Willey the eldest, and Joseph Stephens, his fon, and William Willey, may each of them be fummoned. Moreover the faid robbed and defrauded minister prays that it may likewise be ordered, that the select men of faid each year may refcue faid parfonage land from him the faid Daniel Davis and every other unjust incroacher thereon, and on each other parcel of glebe land or parfonage (as viz.) the long marth and that parcel of ministerial land lying on the highway leading S. and W. toward Lampereel river, and bounded E. and S. on Potter Mason's land, and S. and W. on Richard Denbow's land, each of which is incroached upon by one or other of the adjacent neighbours, and although their minister, as their spiritual father, so long seeking their welfare in gathering of a church first amongst them, on March 26, 1718, his prevailing as the dreffer of their church vineyard, with Immanual Christ Jesus the Lord thereof, for his grant of four years probation, whether the barren fig trees might, by a minifterial husbandry expended on them, be prevailed with to bear fruit proportionably that it might be well with them as in the gospel parable thereof, Luke xiii. 7, 8, 9, and when the Indian war began, anno 1722, and that five persons were cut down thereby, in our parish; who hath likewise prevailed with the heavenly Prince of Peace to make and keep his covenant of peace with and for us as written in Ezekiel xxxiv, 25, yearly pleaded and granted these thirteen years hitherto, notwithstanding the fo repeatedly many rumours of wars free from the reality thereof. Likewise in the year 1729, when Captain Samuel Emerfon and Lieut. Jonathan Thompson and Hubbard Stevens had harraffed their minister with an antichristian council ecclesi-

aftical countenanced by the then Commander in chief, after which the faid Emerson and Korite company, by their negative clandestine votes robbed him of the £50 addition to his falary, they granted him the preceding year 1728. In his so provoked fubjection to passion, as Elias in James v. 17, 18, he the said minister, while it was yet more than three months to the harvest, prayed it might not rain, and it rained not until three months after; when in regard to the opportunity of fome friendly brethren, he appointed and confcientiously fanctified a church fast, from evening to evening, abstained three meals from cating, drinking and smoaking any thing; in beginning of September that year 1729; and the Lord Christ was pleased to hear in heaven and grant fuch repeated plentiful and warm rains, as recovered the languishing corn, grass and fruits of the trees, unto a considerable harvest thereof; so as was then remarkable. And in that year 1733, when the faid parish, by the General Court, was chartered into the township of Durham in answer unto their said minister's petition, for its privileges and faid name as therein pleaded for, and the inhabitants of faid town proceeded by their chosen committee, at their most general meeting, to divide their commons, voting their minister aforesaid, should, as he did draw lots for them all, yet he cannot prevail with the lot layers to furvey his lot of twenty-five acres, nor in-form him where he may have it laid out for him, neither have faid inhabitants fulfilled their condition of honourably supporting their minister. And fince no inferior Court in this faid province hitherto could do justice to your petitioner, he is therefore now necessitated to flee for refuge to this Supreme Legislative Court of nursing fathers; in each of which requests, your so long oppressed petitioner importunately asketh for justice, firmly believing, after that, God will be intreated for the land in New-Hampshire.

So complaineth and prayeth the above named pe-

titioner,

HUGH ADAMS.

No. VII.

The opinions of John Read and Robert Auchmuty, on the case of John Tufton Mason, 1738.

1622, Nov. 7. THE Prefident and Council established at Plymouth for the planting and governing of New-England, granted to Capt. John Mason, of London, Efq. all that part of the main land in New-England from the middle of Merrimack river, along the fea coast to Pascataqua River, up that river to the farthest head thereof, and from thence northwestward till three score miles be finished from the entrance of Paicatagua river, and from Merrimack through that river to the farthest head thereof, and fo forwards up into the land westward, till threefcore miles be finished, and from thence to cross over land to the three fcore miles end, accounted from Pafcataqua river, together with all the islands within five miles of the premifes, with the appurtenances which the faid John Mason, with their confent, intended to name New-Hampshire, to hold to the faid John Mason and his heirs.

1635, April 22. The prefident and council afore-faid, grant to the faid John Mason, all that part of New-England, from the middle of Naumkege river, along the sea coast, round Cape-Ann to Pascataqua harbour, and up the river Newichawannack, to the farthest head thereof, and from thence northwood ward till sixty miles be sinished from the end, leav-of Pascataqua harbour, and from Naumkege Boston,

the river into the land west fixty miles, from which period, to cross over land to the fixty miles end, accounted from Pascataqua aforesaid, and the south half of the Isle of Shoals and all other islands within five leagues of the premises, all to be called New-Hampshire, also another parcel of land lying on the south east side of Sagadahock, at the mouth of the river, containing near ten thousand acres, to be called by the name of Masonia, to hold to him and his heirs.

N. B. Sir William Jones, and Sir F. Winnington, attorney and folicitor-general in their report in favour of Robert Mason, grandson of John Mason, his title to New-Hampshire, mention another grant from said president and council, to Capt. John Mason, dated 9th March, 1620, which I have not feen.

1635, Nov. 26. Capt. John Mason, by his last will, devised to the mayor and commonalty of Kingflynn, two thousand acres of land in his county of New-Hampshire, or manor of Mason hall in New-England, which his executrix and overfeer should think most sit. Item to his brother-in-law John Wollaston, three thousand acres of land in his county of New-Hampshire or manor of Mason hall, where his faid brother and executrix should think fit; to hold to him and his heirs. Item to his grandchild Anne Tufton, Masonia, to hold to her and her heirs. Item to his grandchild Robert Tufton, his manor of Mason Hall, to hold to him and his heirs, provided he alter his firname, and name himtelf Mason first. Item to John Wollaston aforesaid two thousand acres of land in this county of New-Hampshire, in trust to convey one thousand to some feoffee in trust towards the maintenance of a godly minister in New-Hampshire, and the other thoufand to fome feoffee towards the maintenance of a free grammar school in New-Hampshire. Item to

his grandchild John Tufton, all the rest of his manors, meffuages lands, tenements and hereditaments, in his county of New-Hampshire, or elsewhere in New-England, to hold to him and the heirs of his body. Remainder to his coufin Doctor Robert Mafon, and the heirs male of his body, and for want of fuch iffue to revert to the donor and his heirs, provided his grandchild John Tufton shall alter his firname, and firname himself Mason; first provided also the said John Tufton shall pay his sister Mary Tufton out of the manors messuages, lands and tenements aforefaid, £500 sterling for her preferment in marriage, &c. and died, and on the fecond of December following, his will was proved in the prerogative court of Canterbury, and administration granted to Anne, his widow executrix.

1677. John and Anne, grandchildren, died without iffue, and their estates came to Robert Tufton Mason, accordingly for whom King Charles II. settled the bound line between New-Hampshire and the Massachusetts Bay, and he died leaving two sons,

John and Robert.

1691, April 27. John and Robert Tufton Mafon bargained and fold to Samuel Allen of London, merchant, for a fum of money, all New-Hampshire, as bounded in their great grandfather's grant of 1635, and Masonia, also part of the province of Main, the country Mariana, province of Laconia, and feveral towns in New-Hampshire, as heretofore described with the appurtenances, deed and charters thereof, to hold to him and his heirs. Then John died without issue. That Robert Tufton Mason, furviving great grandfon of Captain John Mason, lived and died at Portfmouth, of Pascataqua, about forty years ago, leaving his eldest son, John Tufton Mason and several other children; and this John Tufton Mason about twenty years after, died, leaving one only child, John Tufton Mason, of Boston,

mariner, who claims the province of New-Hampfhire, and would compound with the province of the Maffachufetts Bay all differences between them:

Qu. Upon the whole, what interest hath this John Tuston Mason in New-Hampshire, and to what purpose and effect can the province* agree

with him, and in what manner execute it?

Answ. So much as the President and Council aforesaid conveyed to Captain John Mason for New-Hampshire, except the lands fouthward of Merrimack river, and within three miles of it on the northerly fide, which was before conveyed to the inhabitants of the colony of the Massachusetts, and except feven thousand acres particularly devised, and the manor of Mason Hall, the bounds and contents whercof I know not. I fay all the rest of New-Hampshire, Captain John Mason, by his will aforefaid, devised to his grandson, John Tufton Mason, in tail, general. Remainder to his grandfon, Robert Tufton Mason, in tail general, with remainders over, and the right has properly remained descended, and come to this John Tufton Mason, of Boston, mariner, the alienation of his great uncle and grandfather aforefaid notwithstanding, which could be of no avail after their death. But if at their death his father was of full age, it is fo many years ago, that his fuit is effectually barred by statute 21, James I. chap. xvi. which requires him or his heirs to bring it within twenty years after the title accrued at farthest. And if he ever came of age, he or his heirs could have but ten years after he was of age, or after his death, to bring this fuit, which must be elapsed in this time, and their suit intirely barred, for which only reason I am of opinion this Province can neithet get nor lose by him and his ti-JOHN READ. ale aforefaid.

[&]quot; Of Massachusette.

I conceive the right properly descends to John Tuston Mason, of Boston, mariner, the alienation aforesaid notwithstanding; and am of opinion the statute of limitation aforesaid will not be held of itself to extend to New-England, being an act not affirmative of the common law in abridgment of the general right the party has of pursuing, and beyond twenty years afferting his property, and from the express words of the statute, the same appears to be confined to the realm of England. John Tuston Mason cannot convey but for his life, and not that, being out of possession, till he regains the same. Whatever fruit the province may expect from his title must be by proper powers.

ROBERT AUCHMUTY.

Boston, June 16, 1738.

No. VIII.

Copy of Queries stated by Jeremy Gridley, Esq. of Boston, and and swered by N. Fazakerley, Esq. of London.

Qu. WHETHER a fine fur cognizance, &c. levied at Westminster, of lands lying in New-England, by fiction, supposed to be in England, will bar the heir in tail by common or statute law?

I am of opinion that the heir in tail will not be bar-

red or affected thereby.

Qu. Whether a common recovery fuffered of fuch lands, will be a bar to the heir in tail? N. B. There was a proper court in the plantation where a fine might have been levied, and a recovery fuffered, and the fervice of the writ in the common recovery was upon the heir in tail then in England.

I think the heir in tail will not be barred or af-

fected thereby.

Qu. Whether such a fine and recovery will bar the heir in tail in a plantation where such heir has a right to the jurisdiction and prerogatives used by the Bishop of Durham in the county palatine of Durham, though he did not exercise his right at that time, and there were courts there under the appointment of the crown?

If the facts relating to this question had been stated, I might have been able to have given a direct answer to this question. However this general answer may probably answer the intent of the question, for I am of opinion that a fine, or recovery, cannot operate upon any real estate or interest lying out of the jurisdiction of the court of common pleas, and consequently cannot bar or affect any estate tail in any foreign colony or plantation. And in my opinion such a law would be of most dangerous consequence to estates in those countries, and introduce great uncertainty and confusion if the estates of the inhabitants were to be affected by records privately made up in this country, which may be laid in one country as well as another.

Qu. Whether any judgments have been given at Westminster, upon the validity and force of such

fines and recoveries, and what are they?

I know not that there has been any fuch judgment; but a few years ago, when the prefent Lord Chancellor was Chief Justice of the King's Bench, there was a writ of error brought to reverse a fine levied in the common pleas, and the error assigned was that it appeared upon the face of the record, that the lands lay in partibus transmarinis, and the defendant in error was so sensible of the objection, that he moved the court of common pleas to amend by striking out the words in partibus transmarinis, which put an end to the cause. And I do not know of any other judgment. But as to recoveries, how

can a writ of seizin be awarded or returned? for the sheriff cannot give seizin of lands out of his Bailiwick.**

N. FAZAKERLEY.

May 21, 1754.

No. IX.

An original Letter from Gov. WENTWORTH to Gov. SHIRLEY.

Portsmouth 22d March, 1754.

SIR,

IT gives me great concern to find by your Excellency's letter of the 18th current, that the intelligencies you have from the eastward, confirm the report of the Fort the French are building on or near Kennebeck river. This part of the French policy, it concerns all his Majesty's colonies to defeat, as the building forts within the undoubted limits of his Majesty's dominions, is not only a violation of all treaties subfisting between his Britannick Majesty and the French King, but has a fatal tendency to disturb the peace and quiet of all his Majesty's colonies on the continent of America, and therefore I shall think it my duty, if I can obtain affiftance from the affembly, to prevent not only the building this, but any other fort within the known limits of the King's dominions, after they have been desired and required to desist.

In a postcript of my last letter, I advised your Excellency that the two persons indicted for the murder of two Indians, the grand Jurors had found a bill against, and on Monday they were put in irons, and to remain so until the day appointed for their trial,

^{*} The seizin of the Lands of New-Hampshire, when sold to Samuel Allen, was given by the Sheriff of Kent, in England.

but on Thursday morning about two of the clock, a mob assembled, and with axes and crows broke open, and rent in pieces the outer and inner doors of the prison, and rescued the prisoners, and in so filent a manner, that the neighbouring houses were not disturbed, until the main body had got possession of the prisoners, and then they marched out of town, firing guns, and in a most infolent manner. As to the numbers it is variously reported, some fay two hundred, and others three hundred, but it is my opinion, they thought themselves strong enough to refift the town had they been discovered; and it is generally supposed the far greater part of this riotous gang came out of the country, and from the frontiers who will be most exposed, if by their unprecedented conduct it should be the cause of a war; but that a white man should not be hanged for killing an Indian, has taken fuch deep root in the minds of the unthinking multitude, that it is impossible to remove it.

I convened the council on this occasion, who advised me to issue a proclamation, promising a reward for apprehending the prisoners, but they defired to suspend their advice on the rioters, until the next week, alledging that as there was so great a number concerned, it must be impossible but some discovery must be made in a more easy way; so I have adjourned the consideration thereof until next week, hoping some discovery may be made in the mean time, of some of the leaders.

I am, with the greatest respect,
Sir, your Excellency's most
obedient, humble servant,
B. WENTWORTH.

No. X.

A particular Account of the Captivity of Mrs. Jemima Howe, by the Rev. Bunker Gay, of Hinsdale, in a letter to the Author.

July 27, AS Messirs. Caleb Howe, Hilkiah Grout, and Benjamin Gaffield, who had been hoeing corn in the meadow, west of the river, were returning home, a little before funfet, to a place called Bridgman's Fort, they were fired upon by twelve Indians, who had ambushed their path. Howe was on horseback, with two young lads, his children, behind him. A ball, which broke his thigh, brought him to the ground. His horse ran a few rods and fell likewise, and both the lads were taken. The Indians in their favage manner, coming up to Howe, pierced his body with a spear, tore off his fcalp, fluck a hatchet in his head, and left him in this forlorn condition. He was found alive the morning after, by a party of men from Fort Hinfdale; and being asked by one of the party whether he knew him, he answered yes, I know you all. These were his last words, though he did not expire until after his friends had arrived with him at Fort Hinfdale. Grout was so fortunate as to escape unhurt. But Gaffield, in attempting to wade through the river, at a certain place which was indeed fordable at that time, was unfortunately drowned. Flushed with the success they had met with here, the favages went directly to Bridgman's Fort. There was no man in it, and only three women and fome children, viz. Mrs. Jemima Howe, Mrs. Submit Grout, and Mrs. Unice Gaffield. There husbands, I need not mention again, and their feelings at this juncture I will not attempt to describe. They had heard the enemies guns, but knew not what had happened to their friends. Extremely anxious for their fafety, they stood longing to embrace them, until at length, concluding from the noise they heard without that some of them were come, they unbarred the gate in a hurry to receive them; when lo! to their inexpressi-ble disappointment and surprise, instead of their husbands, in rushed a number of hedious Indians, to whom they and their tender offspring became an eafy prey; and from whom they had nothing to expect, but either an immediate death, or a long and doleful captivity. The latter of these, by the favor of Providence, turned out to be the lot of these unhappy women and their still more unhapby, because more helpless, children. Mrs. Gaffield had but one, Mrs. Grout had three, and Mrs. Howe feven. The eldest of Mrs. Howe's was eleven years old, and the youngest but fix months. The two eldest were daughters, which she had by her first husband, Mr. William Phipps, who was also slain by the Indians, of which, I doubt not but you have feen an account in Mr. Doolittle's history. It was from the mouth of this woman that I lately received the foregoing account. She also gave me, I doubt not, a true, though to be fure, a very brief and imperfect history of her captivity, which I here insert for your perusal. It may perhaps afford you some amusement, and can do no harm; if after it has undergone your critical infpection, you should not think it (or an abreviation of it) worthy to be pre-ferved among the records you are about to publifh ...

'The Indians (she says) having plundered and put fire to the Fort, we marched as near as I could judge, a mile and a half into the woods, where we encamped that night. When the morning came,

and we had advanced as much farther, fix Indians were fent back to the place of our late abode, who collected a little more plunder, and destroyed some other effects that had been left behind; but they did not return until the day was fo far fpent, that it was judged best to continue where we were, through the night. Early the next morning we fet off for Canada, and continued our march eight days fuccessively, until we had reached the place where the Indians had left their canoes, about fifteen miles from Crown Point. This was a long and tedious march; but the captives, by divine affistance, were enabled to endure it with less trouble and difficulty, than they had reason to expect. From fuch favage mafters, in fuch indigent circumstances, we could not rationally hope for kinder treatment than we received. Some of us, it is true, had a harder lot than others; and, among the children, I thought my fon Squire had the hardest of any. He was then only four years old, and when we stopped to rest our weary limbs, and he fat down on his master's pack, the savage monster would often knock him off; and fometimes too, with the handle of his hatchet. Several ugly marks, indented in his head by the cruel Indians, at that tender age, are still plainly to be seen.

At length we arrived at Crown Point, and took up our quarters there, for the space of near a week. In the mean time some of the Indians went to Montreal, and took several of the weary captives along with them, with a view of selling them to the French. They did not succeed, however, in finding a market for any of them. They gave my youngest daughter, Submit Phipps, to the Governor, de Vaudreuil, had a drunken frolick, and returned again to Crown Point, with the rest of their prisoners. From hence we set off for St. John's, in four

or five canoes, just as night was coming on, and were foon furrounded with darkness. A heavy storm hung over us. The found of the rolling thunder was very terrible upon the waters, which at every flash of expansive lightning, seemed to be all in a blaze. Yet to this we were indebted for all the light we enjoyed. No object could we discern any longer than the flashes lasted. In this posture we failed in our open tottering canoes, almost the whole of that dreary night. The morning indeed had not yet begun to dawn, when we all went ashore; and having collected a heap of sand and gravel for a pillow, I laid myself down, with my tender infant by my side, not knowing where any of my other children were, or what a miserable condition they might be in. The next day, however, under the wing of that ever present and all-powerful Providence, which had preserved us thro' the darkness, and imminent dangers of the preceding night, we all arrived in safety at St. Johns.

Our next movement was to St. Francois, the metropolis, if I may fo call it, to which the Indians, who led us captive, belonged. Soon after our arrival at their wretched capital, a council, confifting of the chief Sachem, and fome principal warriors of the St. Francois tribe, was convened; and after the ceremonies ufual on fuch occasions, were over, I was conducted and delivered to an old squaw, whom the Indians told me, I must call my mother. My infant still continuing to be the property of its original Indian owners. I was nevertheless permitted to keep it with me a while longer, for the sake of saving them the trouble of looking after it, and of maintaining it with my milk. When the weather began to grow cold, shuddering at the prospect of approaching winter, I acquainted my new mother that I did not think it would be possible for me to

Endure it, if I must spend it with her, and fare as the Indians did. Listening to my repeated and earnest solicitations, that I might be disposed of among some of the French inhabitants of Canada, she, at length, set off with me and my infant, attended by some male Indians, upon a journey to Montreal, in hopes of finding a market for me there.

But the attempt proved unfuccessful, and the journey tedious indeed. Our provisions were for scanty as well as infipid and unfavory, the weather was fo cold, and the travelling fo very bad, that it often seemed as if I must have perished on the way. The lips of my poor child were fometimes fo benumbed that when I put it to my breast, it could not, till it grew warm, imbibe the nourishment requifite for its support. While we were at Montreal, we went into the house of a certain French gentleman, whose lady, being fent for, and coming into the room where I was, to examine me, feeing I had an infant, exclaimed fuddenly in this manner, 'Damn it, I will not buy a woman that has a 'child to look after.' There was a swill-pail standing near me, in which I observed some crusts and crumbs of bread fwiming on the furface of the greafy liquor it contained: Sorely pinched with hunger, I skimmed them off with my hands and eat them; and this was all the refreshment, which the house afforded me. Some where in the course of this visit to Montreal, my Indian mother was fo unfortunate as to catch the fmall pox, of which distemper she died, soon after our return, which was by water, to St. Francois.

And now came on the feafon when the Indians begun to prepare for a winter's hunt. I was ordered to return my poor child to those of them, who still claimed it as their property. This was a fevere trial. The babe clung to my bosom with all

its might; but I was obliged to pluck it thence, and deliver it, shrieking and screaming, enough to penetrate a heart of stone, into the hands of those unfeeling wretches whose tender mercies may be termed cruel. It was foon carried off by a hunting party of those Indians, to a place called Messiskow, at the lower end of Lake Champlain, whither, in about a month after, it was my fortune to follow them. I had preferved my milk, in hopes of fee-ing my beloved child again. And here I found it, it is true, but in a condition that afforded me no great fatisfaction; it being greatly emaciated, and almost starved. I took it in my arms, put its face to mine, and it instantly bit me with fuch violence, that it feemed as if I must have parted with a piece of my cheek. I was permitted to lodge with it that, and the two following nights; but every morning that intervened, the Indians, I suppose on purpose to torment me, fent me away to another wigwam, which stood at a little distance, though not so far from the one in which my distressed infant was confined, but that I could plainly hear its incessant cries, and heart rending lamentations. In this deplorable condition I was obliged to take my leave of it, on the morning of the third day after my arrival at the place. We moved down the Lake feveral miles the fame day; and the night following was remarkable on account of the great earthquake* which terribly shook that howling wilderness. Among the islands hereabouts we spent the winter season, often shifting our quarters, and roving about from one place to another; our family consisting of three persons only, besides myself, viz. my late mother's daughter, whom therefore I called my sister, her fanhop, and a pappoofe. They once left me alone two difinal nights; and when they returned to me again,

^{*} Nov. 18, 1755.

perceiving them fmile at each other, I asked what is the matter? They replied, that two of my children were no more: One of which, they faid, died a natural death, and the other was knocked on the head. I did not utter many words, but my heart was forely pained within me, and my mind exceedingly troubled with strange and awful ideas. I often imagined, for instance, that I plainly saw the naked carcafes of my deceafed children hanging upon the limbs of the trees, as the Indians are wont to hang the raw hides of those beasts which they take in hunting. It was not long, however, before it was fo ordered by kind Providence, that I should be relieved in a good measure from those horrid imaginations; for as I was walking one day upon the ice, observing a fmoke at some distance upon the land, it must proceed, thought I, from the fire of some Indian hut, and who knows but some one of my poor children may be there. My curiofity, thus excited, led me to the place, and there I found my fon Caleb, a little boy between two and three years old, whom I had lately buried, in fentiment at least; or rather imagined to have been deprived of life, and perhaps also denied a decent grave. I found him likewife in tolerable health and circumstances, under the protection of a fond Indian mother; and moreover had the happiness of lodging with him in my arms one joyful night. Again we shifted our quarters, and when we had travelled eight or ten miles upon the fnow and ice, came to a place where the Indians manufactured fugar which they extracted from the maple trees. Here an Indian came to vifit us, whom I knew, and could fpeak English. asked me why I did not go to see my son Squire. I replied that I had lately been informed that he was dead. He assured me that he was yet alive, and but two or three miles off, on the opposite side of the

Lake. At my request he gave me the best directions he could to the place of his abode. I refolved to embrace the first opportunity that offered of endeavoring to fearch it out. While I was bufy in contemplating this affair, the Indians obtained a little bread, of which they gave me a small share. I did not taste a morsel of it myself, but saved it all for my poor child, if I should be so lucky as to find him. At length, having obtained of my keepers leave to be absent for one day, I set off early in the morning, and steering, as well as I could, according to the directions which the friendly Indian had given me, I quickly found the place, which he had so accurately marked out. I beheld, as I drew nigh, my little fon without the camp; but he looked, thought I, like a starved and mangy puppy, that had been wallowing in the ashes. I took him in my arms, and he fpoke to me these words, in the Indian tongue: 'Mother are you come?' I took him into the wigwam with me, and observing a number of Indian children in it, I distributed all the bread which I had referved for my own child, among them all, otherwise I should have given great offence. My little boy appeared to be very fond of his new mother, kept as near me as possible while I staid, and when I told him I must go, he fell as though he had been, knocked down with a club. But having recommended him to the care of Him that made him, when the day was far fpent, and the time would permit me to stay no longer, I departed, you may well suppose, with a heavy load at my heart. The tidings I had received of the death of my youngest child had, a little before, been confirmed to me beyond a doubt, but I could not mourn so heartily for the deceafed as for the living child.

When the winter broke up, we removed to St. John's; and, through the enfuing fummer our prin-

cipal residence was at no great distance from the fort at that place. In the mean time, however, my fifter's husband having been out with a scouting party to fome of the English settlements, had a drunken frolic at the fort, when he returned. His wife, who never got drunk, but had often experienced the ill effects of her husband's intemperance, fearing what the confequence might prove, if he should come home in a morose and turbulent humour, to avoid his infolence, proposed that we should both retire, and keep out of the reach of it, until the storm abated. We abfconded accordingly, but fo it happened, that I returned, and ventured into his presence, before his wife had prefumed to come nigh him. I found him in his wigwam, and in a furly mood; and not being able to revenge upon his wife, because fhe was not at home, he laid hold of me, and hurried me to the fort; and for a trifling confideration, fold me to a French gentleman, whose name was Saccapee. 'Tis an ill wind certainly that blows no body any good. I had been with the Indians a year lacking fourteen days; and, if not for my fifter, yet for me, 'twas a lucky circumftance indeed, which thus at last, in an unexpected moment, fnatched me out of their cruel hands, and placed me beyond the reach of their infolent power.

After my Indian master had disposed of me in the manner related above, and the moment of sober reslection had arrived, perceiving that the man who bought me had taken the advantage of him in an unguarded hour, his resentments begun to kindle, and his indignation rose so high, that he threatened to kill me if he should meet me alone, or if he could not revenge himself thus, that he would set fire to the fort. I was therefore secreted in an upper chamber, and the fort carefully guarded, until his wrath had time to cool. My service in the

family to which I was now advanced, was perfect freedom, in comparison of what it had been among the barbarous Indians. My new master and mistrefs were both as kind and generous towards me as I could any ways expect. I feldom asked a favor of either of them, but it was readily granted: In consequence of which I had it in my power, in many instances, to administer aid and refreshment to the poor prisoners of my own nation, who were brought into St. John's during my abode in the family of the above-mentioned benevolent and hospitable Saccapee. Yet even in this family fuch trials awaited me as I had little reason to expect, but flood in need of a large flock of prudence, to enable me to encounter them. Must I tell you then, that even the good old man himfelf, who confidered me as his property, and likewife a warm and resolute son of his, at that same time, and under the same roof, became both excessively fond of my company; fo that between thefe two rivals, the father and the fon, I found myself in a very critical fituation indeed, and was greatly embarraffed and perplexed, hardly knowing many times, how to behave in fuch a manner as at once to fecure my own virtue, and the good esteem of the family in which I refided, and upon which I was wholly dependent for my daily support. At length, however, through the tender compassion of a certain English gentleman,* the Governor de Vaudreuil being made acquainted with the condition I had fallen into, immediately ordered the young and amorous Sacca-pee, then an officer in the French army, from the field of Venus to the field of Mars, and at the fame time also wrote a letter to his father, enjoining it upon him, by no means to fuffer me to be abuf-ed, but to make my fituation and fervice in his fam-

[«] Col. Peter Schuyler, then a prisoner.

ily as easy and delightful as possible. I was moreover under unspeakable obligations to the Governor upon another account. I had received intelligence from my daughter Mary, the purport of which was, that there was a prospect of her being fhortly married to a young Indian of the tribe of Saint Francois, with which tribe she had continued from the beginning of her captivity. These were heavy tidings, and added greatly to the poignancy of my other afflictions. However, not long after I had heard this melancholy news, an opportunity presented, of acquainting that humane and generous gentleman, the commander in chief, and my illustrious benefactor, with this affair also, who in compassion for my sufferings, and to mitigate my forrows, iffued his orders in good time, and had my daughter taken away from the Indians, and conveyed to the fame nunnery where her fifter was then lodged, with his express injunction, that they should both of them together, be well looked after, and carefully educated, as his adopted children. In this school of superstition and bigotry, they continued while the war in those days between France and Great-Britain lasted. At the conclusion of which war, the Governor went home to France, took my oldest daughter along with him, and married her then to a French gentleman, whose name is Cron Lewis. He was at Boston with the fleet under Count de Estaing, [1778] and one of his Clerks. My other daughter still continuing in the nunnery, a confiderable time had clapfed after my return from captivity, when I made a journey to Canada, refolving to use my best endeavors not to return without her. I arrived just in time to prevent her being fent to France. She was to have gone in the next vessel that sailed for that place. And I found it extremely difficult to prevail with her to quit the

nunnery and go home with me. Yea, she absolutes ly refused, and all the persuasions and arguments I could use with her, were to no effect, until after I had been to the Governor and obtained a letter from him to the fuperintendant of the nuns, in which he threatened, if my daughter should not be immediately delivered into my hands, or could not be prevailed with to fubmit to my parental authority, that he would fend a band of foldiers to affift me in bringing her away. Upon hearing this she made no farther relistance. But so extremely bigoted was fhe to the customs and religion of the place, that after all, the left it with the greatest reluctance, and the most bitter lamentations, which she continued as we passed the streets, and wholly refused to be comforted. My good friend, Major Small, whom we met with on the way, tried all he could to confole her; and was fo very kind and obliging as to bear us company, and carry my daughter behind him on horseback.

But I have run on a little before my story, for I have not yet informed you of the means and manner of my own redemption, to the accomplishing of which, the recovery of my daughter just mentioned, and the ransoming of some of my other children, several gentlemen of note, contributed not a little; to whose goodness, therefore, I am greatly indebted, and fincerely hope I shall never be so ungrateful as to forget. Col. Schuyler in particular was fo very kind and generous as to advance 2700 livres to procure a ranfom for myfelf and three of my children. He accompanied and conducted us from Montreal to Albany, and entertained us in the most friendly and hospitable manner a considerable time, at his own house, and I believe entirely at his own expense.

I have spun out the above narrative to a much greater length than I at first intended, and shall conclude it with referring you, for a more ample and brilliant account of the captive heroine, who is the fubject of it, to Col. Humphrey's history of the life of Gen. Ifrael Putnum, together with fome remarks upon a few clauses in it. I never indeed had the pleasure of perusing the whole of said history, but remember to have feen, some time ago, an extract from it in one of the Boston newspapers, in which the Colonel has extolled the beauty and good fenfe, and rare accomplishments of Mrs. Howe, the perfon whom he endeavors to paint in the most lively and engaging colours, perhaps a little too highly, and in a style, that may appear to those who are acquainted with her at this day, romantick and extravagant. And the Colonel must needs have been misinformed with respect to some particulars that he has mentioned in her story. Indeed, when I read the extract from his history to Mrs. Tute, (which name she has derived from a third husband, whose widow she now remains) she seemed to be well pleased, and said, at first, it was all true, but soon after contradicted the circumstance of her lover's being fo bereft of his fenses when he faw her moving off in a boat at some distance from the shore, as to plunge into the water after her, in confequence of which he was feen no more. It is true, fhe faid, that as she was returning from Montreal to Albany, she met with young Saccapee on the way. That fhe was in a boat with Col. Schuyler, that the French officer came on board the boat, made her fome handsome presents, took his final leave of her, and departed, to outward appearance, in tolerable good humour.

She moreover fays, that when she went to Canada for her daughter, she met with him again, that he show-

ed her a lock of her hair, and her name likewise, printed with vermilion on his arm. As to her being chosen agent to go to Europe, in behalf of the people of Hinsdale, when Col. Howard obtained from the government of New-York a patent of their lands on the west-side of Connecticut river, it was never once thought of by Hinsdale people until the above-mentioned extract arrived among them, in which the author has inserted it as a matter of undoubted fact.

No. XI.

AT THE COURT AT ST. JAMES's,

The 20th Day of July, 1764,

THE KING'S MOST EXCELLENT MAJESTY,

Lord Howard,
Earl of Sandwich,
Earl of Halifax,
Earl of Powis,
Earl of Harcourt,

Earl of Hillfborough, Mr. Vice-Chamberlain, Gilbert Elliot, Efq. James Ofwald, Efq.

WHEREAS there was this day read at the Board a report made by the Right Honourable the Lords of the Committee of Council for Plantation Affairs, dated the 17th of this inflant, upon confidering a Representation from the Lords Commissioners for Trade and Plantations, relative to the disputes that have some years subsisted between the Provinces of New-Hampshire and New-York, concerning the Boundary Line between those Provinces. His Majesty taking the same into consideration, was pleased, with the advice of his Privy Council, to approve of what is therein proposed, and

doth accordingly hereby Order and Declare, the western banks of the river Connecticut, from where it enters the Province of the Massachusetts Bay, as far North as the forty-fifth degree of Northern Latitude, to be the Boundary Line between the said two Provinces of New-Hampshire and New-York. Whereof the respective Governors and Commanders in Chief of his Majesty's said Provinces of New-Hampshire and New-York, for the time being, and all others whom it may concern, are to take notice of his Majesty's pleasure hereby signified, and govern themselves accordingly.

W. BLAIR.

No. XII.

Copy of a Report of a Committee of both Houses of the Mussachusetts Assmbly, respecting the New-Hampshire Line, December 1766.

THE committee to whom was referred the affair of the line between the province of Maine, now a part of the Maffachusetts Bay, and that of New-Hampshire, beg leave to represent the facts as

they appeared to them.

The commissioners appointed by his late Majesty, King George the second, to settle the line between the two governments aforesaid, A. D. 1737, reported the same to begin in the middle of the mouth of Pascataqua harbor, and up the river Newichawanock, a part of which is called Salmon fall, and through the middle of the same to the farthest head thereof; and from thence north two degrees west, until one hundred and twenty miles be finished, from the mouth of Pascataqua harbour aforesaid, or until it meets with his Majesty's other governments. Governor Belcher, who was then at the head of

both provinces, in the winter of the year 1740-1, moved to the Assembly of the Massachusetts to appoint a committee to join with those of New-Hampshire, in order to run out and mark the aforesaid line, agreeable to the determination of the commissioners aforefaid. But the Assembly, after several motions made to them, referred the confideration of this affair to the then next May fession. Governor Belcher foon after met the Affembly of New-Hampfhire, who, upon a motion made to them of running the line aforefaid, complied, and in the month of March 1741, proceeded on the affair exparte, beginning at the head of the easternmost and smallest branch of the aforefaid river, and run twenty-five or thirty miles into the country; this was performed by Walter Bryant, by order from Governor Belcher; and however imperfect this furvey was, that government have returned it, together with a plan thereof; but the royal approbation in Council is had in the words of the commissioners' report, abovementioned, without having any regard to the furvey aforesaid, and it has been found, by the most careful examination, that the river is much larger than the branch from whence the faid Bryant then took his departure; and this appears by his own evidence, together with Capt. Gowing's and Warren's. And your committee beg leave further to obferve, that, by the plan taken by Bryant, and by the government of New-Hampshire lodged with the board of trade, a copy of which we have received from that Province, it appears that the easternmost branch of the River aforefaid, which the furveyor then took, runs about north and by east; and by the plan fent home by the commissioners, taken by Mr. Jeffrey, and which accompanied their report of the fettlement of the line, in 1737, it appears that the river, there laid down, runs north northwest, (a

copy of which is here authenticated) which exactly agrees with the middle or main branch, and is what this Province claims to; fo that by comparing the two plans, it appears Mr. Bryant was mistaken in taking a pond at the head of the east branch, which he called Lovell's pond, when he should, agreeable to the commissioners' report, have taken the middle or main branch of the river, where was a pond then called, and many years before and fince, known by the name of Lovell's pond, and to this pond Mr. Bryant himself carried our committee, in 1766, and declared that was always called Lovell's pond, which lies at the head of the river, and as those two branches are at fix or feven miles distance, at right angles at the head, a large tract of land near fix miles wide, and fixty or feventy miles in length, was taken into New-Hampshire government, that ought to have remained to the Maffachufetts. Upon the whole it evidently appears to your committee that there was a mistake made in the commencement of the line, in part pretended to be run by Mr. Bryant in the year 1740-1, and that the fame was not then run out is as evident. And from the year 1763, all poffible care has, by this government, been taken to rectify this mistake. Committees have once and again been appointed by this Court to join with New-Hampshire in order thereto, but without succefs. However, as to the propriety of this Court's purfuing the controverfy under its prefent circumstances, your committee having reported the facts, fubmit to your honors confideration.

BENJA. LINCOLN, per order.

No. XIII.

A Letter from Walter Bryent Esq. to the Suther, on the same subject.

New-Market, Oct. 9, 1790.

REV. SIR,

YOURS of the 27th ult. received, and in answer to your request, I can inform you, that about 1766, the Maffachufetts General Court appointed a committee (Col. Lincoln, Col. Bagley, and Esq. Livermore) to inquire and examine into a mistake, which some in that government supposed I had made, in running the Province Line from the head of Salmon-falls river, which committee applied to the then Governor, Benning Wentworth, of New-Hampshire, to join in such examination, who accordingly requested me to attend the committee, and also appointed Col. John Wentworth of Somersworth, a justice of quorum, to take my deposition on the fpot, if necessary, to give the committee full fatisfaction. Accordingly the faid committee, with Col. Wentworth, myself, and about five or fix affiftants, went up Salmon Falls river to where the branches met, and viewed it well, and from thence we went up the westerly branch to the head thereof; and from thence croffed over to the head of the eastermost branch, and found to the committee's fatisfaction, that the cafterly branch was much the largest of the two; vented much more water, and proceeded from a larger pond than the westerly branch. At the pond at the head of the eafterly branch, called in the commissioners' plan, Lovewell's pond, I shewed them the tree from which I formerly run the Province line, well fpotted, with the letters on it, according to my return of the Province line, and the line well fpotted from it. Some of

the committee thereupon fuggested, that possibly that might be the line I run some years afterwards, in laying out the patent for the Masonian proprietors.

I replied I was ready to make oath that that was the identical line I run for the province line, and of the certainty of which they might then eafily be convinced by examining the spots; for it having then been twenty-fix years fince I run the Province line, and but feven years fince I had run the Mafonian patent, if they would cut into a fpot on a growing tree, they might then examine whether there was feven years growth, or twenty-fix years growth over the fpot. Accordingly we marched on the line till we found a large bass tree spotted, and one of the company cut square into the tree against the fpot to the dead wood, and Col. Bagley began at the last years growth, and counted aloud twentyfour years growth in the grain of the wood above or outfide the dead wood of the fpot. Col. Bagley then turning to me faid, 'Bryent, I'll fwear for you, that this tree was fpotted more than twenty years ago;' Col. Wentworth then asked the committee if they defired my deposition to be taken, they answered 'No, we are all well fatisfied without it'-and therefore we returned. I can add no more respecting that line, only, being once at York, during the fitting of the Superior Court, fome of the Judges being informed that I was the Surveyor that run the Province line, fent for me to come to their lodgings. I attended, and after fome conversation Mr. Trowbridge, then Attorney-General, being prefent, asked me what variation was allowed in running that line; I told him ten degrees; he replied, you allowed too much; and observed to Governor Hutchinson, then Chief-Justice, that the line ought to be run anew; Governor Hutchinson

replied, that it would be attended with coft, and that it was not likely New-Hampshire would confent and join. I told them New-Hampshire would readily enough join to run anew with less variation, if requested. They all seemed surprised, and defired to know what reason I had to think New-Hampshire would consent, inasimuch as it would take off a large tract of Pigwacket Intervales. I told them New-Hampshire would gain much more, at Dunstable and the other towns on the west line, for the same variation was allowed on both lines. On which there was a great laugh in the company, and nothing further said about the matter.

I am, Sir, with due respect, Your most humble servant,

WALTER BRYENT.

Rev. Mr. Belknap.

No. XIV.

Mr. Sproule's account of an examination of the south boundary of New-Hampshire.

foutherly line of the Province of New-Hampshire strikes Connecticut river, lies in 42° 43′ 59′ north latitude, and the pine tree from whence this line begins, lies in 42° 41′ 2″; (both latitudes are deduced from accurate astronomical observations taken by Mr. Wright) but had this line been run on a due west course, deducting the variation of the needle, the point where it meets Connecticut river, should lie in the same parallel of latitude with the pine tree; now it appears the difference of latitude is 2 miles and 53 seconds of the equator, and the extent of the line from the pine tree to Connecticut river, is found to be 55 statute miles, from an acturiver, is found to be 55 statute miles, from an acturing the same parallel of latitude is 2 miles and 55 statute miles, from an acturiver, is found to be 55 statute miles, from an acturing the same parallel of latitude is 2 miles and 53 seconds of the equator, and the extent of the line from the pine tree to Connecticut river, is found to be 55 statute miles, from an acturing the province of latitude is 2 miles and 53 seconds of the equator, and the extent of the line from the pine tree to Connecticut river, is found to be 55 statute miles, from an acturing the province of latitude is 2 miles and 53 seconds of the equator, and the extent of the line from the pine tree to Connecticut river, is found to be 55 statute miles, from an acturing the pine tree to connecticut river, is found to be 55 statute miles, from an acturing the pine tree to connecticut river, is found to be 55 statute miles, from an acturing the pine tree to connecticut river.

of a triangle, containing 59,872 acres, which quantity of land the Province of New-Hampshire would have gained, had the line been run on a due west course from the pine tree, exclusive of variation.

GEORGE SPROULE:

Portsmouth, April 8th, 1774:

No. XV.

Copy of the return of a survey of the northern part of New-Hampshire, 1789.

F, the fubscribers, a committee for afcertaining the waste lands in the State of New-Hampshire, have proceeded to run the line on the easterly side of said State, the same *course that the line was formerly run and spotted between this State and the Massachusetts. We begun to measure and fpot at the northeast corner of Shelburne in this State, and measured on to the waters of Umbagog lake, which is 16 miles and 240 rods, then across a branch of faid lake 54 rods, then 14 rods on the land to a river that is 6 rods wide, and runs westerly into faid lake, then measured on the land 1 mile and 226 rods to faid lake, then across the water 40 rods, then over a neck of land 16 rods to an arm of faid lake, then across the water 235 rods, then we continued on our course 195 rods to faid lake, then across faid lake about 3 miles, then we measured and fpotted 2 miles and 226 rods to Margallaway river, that runs about fouth-west, and is about 10 rods wide, and empties into Amorifcoggin river, a little below faid lake; then we measured on our course 1 mile and 70 rods, and crossed said Margallaway river again, which will more fully ap-

^{*} In the orders given to WALTER BRYENT by Governor BELCHER, 1741, it is said; The true north 2 degrees west, is by needle N. 8 ° E.'

pear by the plan herewith exhibited; we continued on our line, measured and spotted to the high lands that divide the waters that fall into the river St. Lawrence and the Atlantic Ocean. From the northeast corner of Shelburne to said high lands is 54 miles, and we marked a tree at the end of every mile, except where miles ended on water, from one to 54 miles inclusive, where we marked a large birch tree that stands on said high lands, thus N. E. 54 M. NEW-HAMPSHIRE, 1789, for the north-east corer of New-Hampshire, and piled stones round said tree; then from faid north-east corner, where we marked the birch, we measured and spotted southwesterly and westerly on said highlands about 6 miles, then we run about west, measured and marked a tree at the end of every mile from faid birch, marked 54 miles, at the north-east corner of faid State from 1 to 17 miles and 200 rods to the head of the northwest of Connecticut river, and marked a fir tree N. H. N. W. 1789, for the north-west branch corner of New-Hampshire, then down said river or north-west branch to the main river about half a mile below latitude 45° north, which will more fully appear by the plan. The mountains, streams and waters are laid down on the plan very accurate where the line we run crossed them, but where they were at some distance from our line we laid them down by conjecture.

JOSEPH CRAMM,
JEREMIAH EAMES.

JOHN SULLIVAN,
EBENEZER SMITH,
NATHAN HOIT,
JEREMIAH EAMES.

Committee.

A true copy.—Attest JOSEPH PEARSON, Secretary.

Pertemouth, January 6, 1790.

No. XVI.

Description of a survey made by James Grant, one of Capt. Holland's party, in 1773, or 1774, to explore the country, for a road, between the upper part of Connecticut river, and the river of St. Francis.

FROM the mouth of Leach's	course.	dift.
river which falls into Connecticut	•	
river on the west side, near the 45th		
degree of latitude, up to the eastern		M.
fide of Leach's river	N	11/2
Thence to cross faid river among		
the mountains	N 30 W	334
Thence to the height of Land -	N30 W	3
Thence to a pond under the east-		
ern fide of a mountain	N30 W	3
Thence to another pond	N10 W	$5\frac{1}{4}$
Thence on the fame course -	N10 W	$4\frac{1}{2}$
Thence to a finall river which falls		
into Memphrimagog river	N21 W	16
Thence across said little river to		
the lower crotch of Memphrimagog		
river	N21 W	$5\frac{1}{2}$
Thence croffing Memphrimagog		
river, a strait line on the N W side, to		
its junction with the river of St. Fran-		1_
cis	N 30 E	11
		44
		* *

The country from Connecticut river to the Height of Land is very hilly, with high mountains on the east and west of the line run, in the direction of which a road may be conveniently made.

From the Height of Land to St. Francis river there is a gradual descent through a plain country; the foil in general of a good quality, and in fome parts extraordinary fine; particularly for about four miles beyond the Height of Land, and for twenty miles on this fide of St. Francis river; which river, with its branches, are bordered with fine intervales.

The principal growth between the Height of Land and St. Francis River, is beech, maple, birch, hemlock and fir; very few white pines, and no oak of any fort; many cedar, fpruce and hemlock fwamps intervene; but none fo moraffy as to impede a road, for which this extent of country in the direction above described, is in general as well adapted as possible.

No. XVII.

A REPORT from the Lord's Commissioners for Trade and Plantations on a complaint made by Peter Livius, Esquire, against John Wentworth, Esquire, Governor of the Province of New-Hampshire.

TO THE KING'S MOST EXCELLENT MAJESTY.

May it please your Majesty,

Majesty's Council for the Province of New-Hamp-shire, in North America, having, on the ninth of July, presented a memorial unto us, complaining of the conduct of John Wentworth, Esquire, Your Majesty's Governor of that Province, and charging him with Oppression and Mal-administration in the government thereof: And it appearing, upon reference to the papers and records in our office, that the journals of the Council of said Province, as a Council of State, and to which the complainant referred

for proof of most of the facts stated in his memorial, had not been transinitted fince the com-mencement of Mr. Wentworth's administration: We thought it our duty immediately to fend to the faid Governor, a copy of the memorial of complaint; and to require him, to lose no time in transmitting to us a full and explicit answer to the feveral charges alledged against him, accompanied with fuch depositions and proofs in his own behalf as he should think proper; giving, at the same time, full liberty to Mr. Livius, or any other person concerned, to make affidavit, before any judge or other Magistrate, of what they knew concerning the fubject matter of the faid complaint; and that fuch Judge or other Magistrate should be likewise enjoined, to fummon fuch perfons as the complainant, or any other in his behalf, should name.

That the Secretary should be likewise enjoined to give attested copies (from the records) of the minutes of the Council, and of any other concerned. And if it should appear as alledged by Mr. Livius, that the said minutes or other records were defective, in any matter required by him or them; or that those transactions which were alledged to have passed at any meetings of the Council, had been omitted to be entered on the journal; then that the Secretary should, in such cases, be further enjoined to give evidence, upon oath, touching such defect

or omission.

That the faid Governor and the complainant, or other person or persons, should interchange the faid proofs and depositions as soon as the same should have been made; and that twenty days should be allowed, as well for himself, as the complainant, or other person concerned, to make his or their reply by assistance or otherwise, to be in like manner interchanged, and afterwards certified and transmitted.

to us, under the feal of the Province; that we might be enabled to represent to your Majesty, on the true state of this affair, pursuant to the powers and directions contained in our commission under the

great feal.

In confequence of the foregoing directions, your Majesty's Governor has transmitted to us his answer to each article of complaint contained in Mr. Livius's memorial, accompanied with attested copies of the Journals of the Council, as a Council of State, from the commencement of his administration, and of fuch depositions as have been taken to support the facts alledged by the Governor in defence of his conduct. And we have taken the faid complaint and answer into our confideration, together with Mr. Livius's reply to the faid answer, copies of all which are hereunto annexed; and having heard counsel learned in the law, as well in support of the complaint, as of the Governor's defence; we hambly beg leave to represent to your Majesty thereupon:

That it does appear, upon full examination and

clear evidence;

First, That your Majesty's Governor of New-Hampshire has, in concurrence with the Council for the faid Province, composed almost altogether of his own kindred or relations by blood or marriage, taken upon him to resume and re-grant many large tracts within the faid Province, the property of your Majesty's subjects by virtue of several former grants; upon bare suggestion only, that the conditions of such former grants had not been complied with, and without the intervention of a Jury, or any proof or evidence whatever, to establish the fact of such default.

Secondly, That these resumptions have been made without any notice (except in one or two ca-

fes) to the proprietors of fuch tracts, fo refumed; and that, in some instances, in which the Governor and Council did think fit to allow time to the proprietors of certain tracts to make good the conditions of their grants, such grants were nevertheless resumed, and the lands re-granted, long before the expiration of the time allowed, and without any notice given to the parties.

Thirdly, That the faid Governor did, without any legal process whatever, resume and regrant several tracts of land reserved to the said late Governor within each of the townships, granted by him, and which reservations he had, by his will, devised to his widow; and that such resumption was made in consequence of a resolution of the Council, 'That' the said reservations did not convey the premises, 'they being granted by the Governor to himself.'

Fourthly, That, pending an action brought in the Inferior Court of Common Pleas, in which your Majesty's Governor was interested, and which he admits was brought for his benefit, the Judges were, in three fuccessive terms, changed, and especial Judges appointed: That, in the standing Court of Common Pleas which first fat in judgment upon the action brought by the Governor, a question arising out of the action was decided against the Governor's interest: That in the second term, two Judges were appointed, which together with one of the Judges of the standing Court abovementioned, adopted the decision of the former court: That, in the third term, two of the Judges were again changed, when the same question was again brought forward, and decided in the fame manner as above: That, in the fourth term, two of the Judges who fat in the former court were removed, and a new bench appointed, confifting of Jacob Sheaffe and John Philips, Esquires, who had not acted in that

capacity in any of the preceding Terms, and of Nathaniel Folfom, who had ferved in the terms, and who is stated to have been uniformly of opinion for the Governor in the question that had been agitated upon the action in which the said Governor was interested; and that, in the last mentioned court, the faid question was a fourth time brought on to trial, and a judgment obtained in favor of the Governor, though afterwards reverfed in the Superior Court in consequence of a Writ of Error.

These, may it please your Majesty, are the material parts of the charge exhibited against Mr. Wentworth; nor is there any other part of the complaint exhibited by Mr. Livius, upon which any evidence has been produced to us, that does, in our humble opinion, lay the foundation for censure upon the Governor's conduct. What we have stated, with respect to the resumption and re-granting of lands, is not, we think, to be justified, either by the plea of usage or expediency, or by the opinion of the Attorney and Solicitor General in one thousand seven hundred and fifty-two, upon which the Governor lays fo great stress; which opinion appears to us; upon full examination of it, to be confined to a particular case stated to them, not corresponding with the cases in which the conduct of Mr. Wentworth is complained of; and that, if it was applicable to fuch cases, yet it does not, in our humble opinion, warrant any resumption of lands, claimed as private property under grants from the crown, upon bare fuggestion only, that the conditions have not been complied with; but on the contrary does, we humbly conceive, imply, that the fact of the default should be first found in a regular course of law. We further crave leave humbly to represent, that, admitting the faid opinion did warrant fuch a proceding, in respect to grants, the conditions of

which had not been complied with, which we conceive it does not; yet it is certainly not applicable either to the case of lands resumed and re-granted before the term allowed for fulfilling the conditions of fettlement were expired; or to the case of the reservations to the late Governor, devised by him to his widow, the refumption and re-granting of which, in manner above stated, upon an extrajudicial opinion of the Council, was, in our judgment, unwarranta-ble and unjust. And we submit, whether the misconduct of your Majesty's Governor, under these heads of complaint, is not greatly aggravated by his having omitted, from the commencement of his administration, to transmit the journals of the Council, as a Council of State; a neglect for which he is certainly responsible, and by which transactions of the greatest importance to your Majesty's interest and the right of your Majesty's subjects have been concealed from your Majesty's knowledge; and the Governor and his Council have gone on, for a feries of years, in a course of very irregular proceedings, without controul.

With regard to what has been proved respecting the change of the Judges, though afferted, in a great number of depositions transmitted by the Governor, to have been consonant to the usage and practice in the Colony; it is yet, in our humble opinion, a proceeding that, under all the circumstances attending it, is of a very extraordinary nature, and does lead to the suspicion and presumption of very unworthy conduct on the part of your Majesty's Governor. And, upon the whole, we humbly submit, 'That the complaint against Mr. Wentworth, so far as it regards the facts above stated, has been fully 'verified:' At the same time it is our duty to represent, that the reports which we have received, through different channels, of the situation of affairs within

your Majesty's government of New-Hampshire, do all concur in representing 'the Colony to have been, 'ever since Mr. Wentworth's appointment, in a 'state of peace and prosperity; that its commerce has been enlarged and extended, the number of its 'inhabitants increased; and every attempt made to 'excite the people to disorder and disobedience has been, by the firm and temperate conduct of Mr. 'Wentworth, suppressed and restrained.' But upon the whole, we humbly submit, whether Mr. Wentworth's conduct, in the instances of the mal-administration with which he has been charged, has been such as renders him a fit person to be entrusted with your Majesty's interests in the important station he now holds.

All which is humbly fubmitted.

Signed,

W. JOLIFFE.

SOAME JENYNS.
BAMBER GASCOYNE.
GREVILLE.
GARL1ES.

White-Hall, May the 10th, 1773.

No. XVIII.

Report of the Committee of the Privy Council, and its acceptance by the King.

(COPY.)

At the Court at St. James's the 8th Day of October, 1773.

(L. S.)

PRESENT

THE KING'S MOST EXCELLENT MAJESTY.

EARL OF SUFFOLK, LORD NORTH, EARL OF SANDWICH. RICHARD RIGBY, VIS. BARRINGTON, GEORGE ONSLOW.

WHEREAS there was this day read at the board, a report from the Right Honorable the Lords of the Committee of council for plantation affairs,* dated the 26th of August last, in the words

following; viz.

"Your Majesty having been pleased, in confequence of a memorial presented to your Majesty fromSir Thomas Wentworth, Baronet, Paul Wentworth, Efquire, and Thomas Macdonagh, fecretary to John Wentworth, Esquire, Governor of the Province of New-Hampshire, to refer unto this committee a representation from the Lords Commissioners for trade and plantations, dated the 10th of May last, upon a complaint exhibited to the said Lords Commissioners against the said Governor Wentworth, by Peter Livius, Esquire, one of your Majesty's Council for the said Province, together with several other papers transmitted by the Earl of Dartmouth, one of your Majesty's principal Secretaries of State, to the Lord President of the Council, relative to the faid complaint: The Lords of the committee, in obedience to your Majesty's said order of reference, have met feveral times, and taken the faid matters into confideration, and have heard Counfel on both fides. And, having maturely weighed and confidered the complaint against the said Governor, the answer of the said Governor, and the reply of the said Peter Livius, Esquire, together with the proofs on all sides, and the said representation of the Lords Commissioners for trade and plantations; the Lords of the committee do humbly represent to your majesty,

"That the first article of Charge, contained in the above mentioned representation of the Lords Commissioners for trade and plantations, sets forth, 'That your Majesty's Governor of New-Hamp-shire has, in concurrence with the Council for the

* Lords of the Committee.

Lord Suffolk President,
Arch Bishop of Canterbury,
Sir Fletcher Norton,

faid Province, composed almost altogether of his own kindred, or relations by blood or marriage, taken upon him to resume and re-grant many large tracts of lands within the said Province, the property of your Majesty's subjects, in virtue of former grants, upon bare suggestion only, that the conditions of such former grants had not been complied with, and without the intervention of a jury, or any proof or evidence whatsoever, to establish the fact of such default.

"With respect to which article, the Lords of the Committee do humbly report to your Majesty, That, by the law of England, when lands are granted to a man and his heirs, upon condition, the breach of the condition must be found by a jury, under a commission, issuing out of the Court of Chancery, before your Majesty can seize and regrant the same: But, in the Province of New-Hampshire there is a Court of Court of Court of New-Hampshire there is a court of New-Hampshire the court of New-Hampshire there is a court of New-Hampshire there is a court of New-Hampshire there is a court of New-Hampshire the court of New-Hampshire there is a court of New-Hampshire there is a court of New-Hampshire there is a court of New-Hampshire the court of New-Hampshire there is a court of New-Hampshir Hampshire, there is no Court of Chancery, or other court, empowered to iffue fuch a commission; and though the general rule is, that the law of England takes place in your Majesty's Colonies, yet it must be always understood to mean such part of the law as is fuited and adapted to the state of the Colony, and to the frame and nature of the constitution eftablished there; and though the Governor, in con-currence with the Council for the said Province, hath refumed and re-granted many tracts of lands within the faid Province, which had been formerly granted to other perfons, yet no evidence hath been laid before the committee of any fuch refumptions and re-grants having been made, without proof or public notoriety that the conditions of fuch former grants had not been complied with; and no complaint hath been, or is now made by any person supposed to be injured by such resumptions and re-grants.

"The fecond article states, 'That these resumptions have been made without any Notice (except in one or two cases) to the proprietors of such tracts so resumed; and that in some instances, in which the Governor and Council did think sit to allow time to the proprietors of certain tracts to make good the conditions of their grants, such grants were nevertheless resumed, and the lands re-granted, long before the expiration of the time allowed, and with-

out any notice given to the parties.'

"As to which article, the Lords of the Committee do humbly report to your Majesty, 'That it hath not been proved that any resumptions have been made, without notice to the proprietors of such tracts so resumed; and it is no part of the original complaint made by Mr. Livius, that in any instance, in which the Governor and Council thought sit to allow time to the proprietors of lands to make good the conditions of their grants, such grants were resumed, and the lands re-granted, before the expiration of the time allowed; and the Governor not having had an opportunity of answering that complaint, the Lords of the committee are humbly of opinion, no notice can be taken of it.

"The third article represents, 'That the said Governor did, without any legal process whatsoever, resume and re-grant several tracts of land, reserved to the late Governor, within each of the townships granted by him, and which reservations he had by his will devised to his widow; and that such resumption was made in consequence of a resolution of the Council, that the said reservations did not convey the premises, they being granted by the

Governor himfelf.

"With respect to this article, the Lords of the committee do humbly report, That the lands were granted, but not reserved to the late Governor and

his heirs in each of the townships granted by him; but being granted by your Majesty, in your Majesty's name, and not in the Governor's name, the grants were fufficient to convey the lands fo granted to him, and the Council was mistaken in thinking them infufficient; and the Lords of the Committee find, that after fuch an opinion given by the Council, the Governor did, with their advice, refume and re-grant feveral tracts of lands, which had been granted by the late Governor within each of the townships, as aforesaid; But it hath not been proved that the faid lands were re-granted in trust for himself; and in many instances it hath been proved, that fuch lands were re-granted to different inhabitants in the faid Province, for their own use and benefit; and the representatives of the late Governor's widow to whom he had devised the fame, have not complained of any injury or oppression by such resumption and re-grants.

"And the fourth article alledges, 'That pending an action brought in the Inferior Court of Common Pleas, in which your Majesty's Governor was interefted, and which he admits was brought for his benefit, the Judges were in three fucceffive terms, changed, and special Judges appointed: That, in the standing Court of Common Pleas, which first fat in judgment upon the action brought by the Governor, a question arising out of the action, was decided against the Governor's interest: That, in the fecond term, two new judges were appointed, which, together with one of the Judges of the standing Court above mentioned, adopted the decifion of the former Court: That, in the third term, two of the judges were again changed when the same question was again brought forward, and decided in the fame manner as above; that in the fourth term, two of the Judges, who fat in the former Court, were removed, and a new Bench appointed, confisting of Jacob Sheaffe and John Phillips, Esquires, who had not acted in that capacity in any of the preceding terms, and of Nathaniel Folsom, who had served in the two preceding terms, and who is stated to have been uniformly of opinion for the Governor, in the question that had been agitated upon the action in which the said Governor was interested; and that in the last mentioned Court, the said question was a fourth time brought on to trial, and a judgment obtained in favour of the Governor, though afterwards reversed in the Superior Court in consequence of a Writ of Error.'

"With respect to this fourth article; the Lords of the committee do humbly report to your Majesty, That it appears in evidence to have been the constant practice, when any of the standing Justices of the Court were interested in any suit there depending, either by being related to any of the parties, or otherwise, for special Judges to be appointed; that there were other causes depending at the same time in the Inferior Court of Common Pleas, wherein the standing Justices were either interested or a-kin to the parties; and there is no proof that the special Judges were appointed on account of the particular cause wherein the Governor was concerned; but by many depositions, and particularly by the deposition of the defendant in the said cause, it appears that the special commissions were solicited in the common form and manner as is usual in the Province of New-Hampshire; and the question debated in the faid cause, being a mere collateral question, not respecting the merits of it, was determined three times for the desendant in the Inferior Court; but being determined a fourth time for the plaintiff, a Writ of Error was brought into the

Superior Court, and was finally determined there for the defendant: And the defendant in the faid cause swears, that he, neither at that time, nor since, had any objections either to the said commissions, or to the Justices therein named and appointed, or to either of them.

"And as to what is submitted in the said reprefentation of the Lords Commissioners for trade and plantations, 'That the Governor omitted, from the commencement of his administration, to transmit the journals of the Council as a Council of State;'

"The Lords of the Committee do humbly report to your Majesty, That this practice was begun in the late Governor's time; who acquainted the proper officer, on his delivering a copy of the said journals in the month of June, 1760, that he need not give himself the trouble to make out such copies for the future, without his special directions; and from that time the practice has been discontinued both by the late and present Governor. But the Lords of the Committee are of opinion, that it may be proper to revive that practice, and to have a regular transmission of such copies to the Lords Commissioners for trade and plantations.

"Upon the whole, therefore, the Lords of the Committee fubmit it to your Majesty, THAT THERE IS NO FOUNDATION FOR ANY CENSURE UPON THE SAID JOHN WENTWORTH, ESO. YOUR MAJESTY'S GOVERNOR OF NEWHAMPSHIRE, FOR ANY OF THE CHARGES CONTAINED IN MR. LIVIUS'S COMPLAINT AGAINST HIM; whose general conduct, in the administration of affairs within your Majesty's government of New-Hampshire, is represented to have tended greatly to the peace and prosperity of the

faid Province.

His Majesty, taking the said report into consideration, is pleased, with the advice of his Privy Council, to approve thereof, and to order, as is hereby ordered, That the said complaint of the said Peter Livius be dismissed this board. And his Majesty doth hereby further order, That the Governor, or Commander in Chief of the Province of New-Hampshire, for the time being, do not fail, on any pretence whatever, punctually and regularly to transmit to the Lords Commissioners for trade and plantations, authentic copies of the journals of the Council, as a Council of State.

Signed, G. CHETWOOD.

No. XIX.

Extract of a Letter from Governor Wensworth, to the Earl of Dantmouth, dated New-Hampshire, 8th of June, 1774.

[This and the following Letters are taken from the Parliamentary Debates, 1775.]

IN my letter No. 59, I had the honour to write to your Lordship, that the General Assembly of this province stood prorogued to the 10th of May, at which time they met and proceeded upon business. I took great pains to prevail on them not to enter into any extra Provincial measures, yet one of the members for Portsmouth read in his place the inclosed letter, No. 1, to the committee of correspondence of Portsmouth, but the House then declined considering it. On Friday, 27th of May, it was moved to appoint committees of correspondence, and after a warm debate, carried by a majority of two only: The next morning it was reconsidered, and carried by a majority of one only, and passed as by the inclosures No. 2, and 3. Immediately after this,

the fupply bill was passed and fent up to the Council, being withheld, as I imagine, for time to effect the other measure. I directly adjourned the Assembly, and kept them under short adjournments till this day, in hopes to obtain a suspension of these votes; but finding there were two letters in town for the speaker, which, some of those who were most active, faid, were to appoint a Congress of the Colonies, I considered it to be improper to admit their proceedings, and therefore immediately put an end to the committees (who have not as yet wrote or acted) and to the Assembly, by a dissolution in a meffage (No. 4, herewith transmitted) cautiously expresfed, in fuch general terms, as to prevent any mifrepresentations. The mode of dissolution after such short adjournments, which are attended by a few members, precluded any meeting of those persons to contrive undefinable measures, or pursue those in their private capacity, that were attempted as an Affembly, which has extremely disconcerted, and I hope will counteract, the efforts of those who strive to lead this Province into combinations with the Maffachufetts-Bay. Before the diffolution, all the usual and neceffary bufiness of the Province was completed, that no detriment can arise from my delaying to call an Affembly, in expectation that a few weeks will convince those who may be members, of the imprudence and error of measures that tend to weaken or subvert the subordination of the Colonies.

No. XX.

Extract of a Letter from Governor Wentworth to the Earl of Dart-MOUTH, dated New-Hampshire, 4th July, 1774.

ON the 25th of June, at night, arrived here the Grosvenor mast-ship, from London, with 27 chests of bohea-tea, consigned to a merchant in

Portfmouth; fometime before the arrival of the ship, it was reported that a quantity of bohea tea was expected. Hereupon I took effectual precautions to counteract the universal disguiet of America from contravening the acts of Parliament in this instance, or destroying the property. By my desire the confignee wrote a letter to the master of the ship, with directions how to proceed on his arrival. This · letter I gave to captain Cochran of his Majesty's caftle William and Mary, who effected my orders in delivering it at fea. The 26th, being Sunday, nothing was done. On the 27th the merchant and mafter went early to the custom-house, and entered the ship and cargo. At noon-day the ship's boats came to the wharf with twenty-seven chests of tea, carts were prepared, and the tea immediately carried to the cuftom-house, and there stored, before any people could assemble to obstruct it. The town not suspecting any movement until my return from Dover, about ten miles off, where I purposely staid during this first operation to secure this event, which I foresaw would be carried quietly, by withdrawing suspicion, having confided my plan to proper magistrates, who I knew would not be disapppointed. In the afternoon a town-meeting was convened upon the occasion. I came to town and paffed on horseback through the concourse, who treated me with their usual kindness and respect. At the meeting, it was represented to the people, that the tea being now lodged in the custom-house, the question was totally changed, that nothing could be done, but by confent of, and agreement with the merchant.
The meeting proceeded with coolness and temper beyond almost my hope. It was proposed that a committee should be chosen, and invested with powers to treat with the merchant. In this committee of eleven, were many principal gentlemen.

discreet men, who I knew detested every idea of violating property: Men disposed to prevent mischief. The town also chose a guard of freeholders, to protect and defend the custom-house and the tea from any attempt or interruption, which being fincerely intended, was faithfully executed. On the 28th, the confignee accepted and agreed to the proposals of the committee, to export the tea to any market he chose, upon condition the town should re-ship and protect it while in the harbour. This they gladly acceded to, and the town upon adjournment confirmed the proceedings; accordingly the committee and the confignee together were at the custom-house, where the duty was openly and regularly paid, and the tea again carted through the streets publicly in the day time, without noise, tumult, or insult. About 9 o'clock P. M. three overheated mariners (two of them strangers) endeavored to excite a mob, to destroy the tea and vessel hired to export it. Whereupon I sent for Colonel Fenton, who gathered a few gen-tlemen, repaired to the veffel, and with laudable spirit and prudence they personally guarded both vessel and cargo in safety till the next morning. On the 29th, A. M. the Comptroller of the Customs informed me, that these mariners had got drums, and were affembling thoughtless people to destroy the tea and floop. At the same time I received a letter, No. 1, a copy herewith inclosed, from the confignee, defiring my aid and affistance, to take possession of the sloop and cargo. Hereupon I directed the sheriff instantly to summon the Council, and every Magistrate and peace-officer to meet me forthwith on the wharf where the vessel lay, deter-mining to disperse any riotous attempts, and order the vessel to the castle: While I was going out on

this my duty, a messenger came to tell me, that fome magistrates and two of the council, Mr. Warner and Mr. Rindge, who happened to be in the way, hearing the noise, had repaired to the place, and, with many other freeholders, filenced the drums, and prevailed on the people to disperse without any outrage. At this time I received a fecond letter (No 2, herewith) from the confignee, to the same purport as the first. I lost no time in writing an order to captain Cochran, immediately to take possession, defend, protect, and safely deliver the faid veffel and cargo to the merchant, or to his orders; and the sheriff, John Parker, Esq. to take command of the castle in his absence, as will appear fully by the inclosure, No. 3. In the evening, about half past 6, observing the wind to be contrary, I dispatched a second order to captain Cochran, still to continue in the orders of the morning, as by the inclosure, No. 4. These orders were directly carried into effect, with a prudence and firmness that does honour to both the officers. On the 30th, the owner of the floop, the master, and the supercargo, to whose care the confignce committed the tea, came on board, with proper custom-house clearances, and authority from the confignee. Captain Cochran examined the twenty-seven chests of tea, found them perfectly fafe, and in good order; defired the three last mentioned persons to examine the fame, which they did, and then received both veffel and cargo into their possession, and forthwith failed for Halifax. Mr. Parker the sheriff, and captain Cochran, returned to their respective duties, and have made return of their doings, on my orders, as in the inclosures, No. 5 and 6. During these transactions, viz. on the evening of the 27th, and morning of the 28th, I told the collector and comptroller, also the configuee, that if they wanted any aid or affiltance, or were apprehensive of danger, I was ready, whenever they would apply to me, and would not only issue orders, but in person defend them; that I was consident, the magistrates and freeholders would not desert me: But they would not apply, declaring they then apprehended no danger.

No. XXI.

Copy of a letter from Governor Wentworth to the Earl of Dart-Mouth, dated New-Hampshire, the 6th of July, 1774.

May it please your Lordship,

UPON hearing the committee of correfpondence, chosen by the late Assembly of this Province, had iffued letters to those members to meet this day in the Representatives chamber in Portsmouth, there to deliberate and act, particularly to choose delegates for a general American Congress, and that some of the said persons were convened. I have confidered it to be my duty to his Majesty to use my endeavours to disperse and separate so illegal and unwarrantable an attempt. I have therefore convened his Majesty's Council, ordered the sheriff to attend me, and requiring their attendance on me, I went into the room, and immediately read the inclosed speech to them; afterwards I directed the sheriff to make open proclamation, for all perfons to difperfe and keep the King's peace, which was done before they had entered on any bufiness, and I expect will be obeyed, as this letter must be forwarded by express 66 miles to Boston, and reach there to-night, in hopes to fave conveyance by admiral Montague. Whatever further may occur, I shall take due care to transmit to your Lordship as

foon as possible, all which is most humbly submitted, dutifully hoping your Lordship's favourable representation of my best zeal, unremitted diligence and fidelity in discharge of my duty, may happily be honoured with his Majesty's approbation. I have the honor to be, with the most perfect respect, &c.

J. WENTWORTH.

No. XXII.

Extract of a Letter from the Honourable Governor Wentworth, to the Earl of Dartmouth, dated New-Hampshire, 13th July, 1774.

HE convention mentioned in my difpatch, No. 63, immediately difperfed, without attempting to enter into any measures. Those gentlemen with some others dined at a tavern, and there in private agreed to recommend to the feveral parishes in the Province, that they choose persons to meet at Exeter on the 21st instant, for the purpose of appointing delegates to attend, and be part of an American Congress, intended to assemble the 1st of September next, in Pennsylvania or New-Jersey. The towns were defired to collect voluntarily, and fend by their agents to Exeter, certain fums of money in proportion to their province-tax, amounting to three hundred pounds sterling, to pay the delegates. It was also recommended to the parishes, that the 14th instant be observed as a day of fasting and prayer. It is yet uncertain how far these requisitions will be complied with; but I am apt to believe the spirit of enthusiasm, which generally prevails through the colonies, will create an obedience that reason or religion would fail to procure.

No. XXIII.

Extract of a Letter from Governor WKNTWORTH, to the Earl of DART-MOUTH, dated New-Hampshire, August 29th, 1774.

SINCE my letter, No. 64, the convention of persons chosen by many towns, in consequence of the invitation in that letter referred to, met at Exeter, and elected Col. Folfom and Major Sullivan to be delegates for this Province, at the Congress to be held in Philadelphia, on the first day of September next. The paper, No. 1, herewith inclosed, is a copy of the instructions given to those gentlemen, and is the best explanation of their fervice and employment that I can obtain. I am informed that this convention collected and brought from their respective towns, about one hundred and twenty guineas, which was paid into the hands of John Giddinge, Esquire, (who they elected Treasurer) to defray the expense incurred by the delegates afore-named, who fet off on their journey to Philadelphia, on the 10th instant.

The committee of correspondence elected by the late Assembly, and of course dissolved with them, wrote circular letters to all the towns in this Province, copy of which, and printed form of the non-importation and non-consumption agreement, recommended in that letter and accompanying it, are herewith transmitted, No. 2. Some few towns generally subscribed, many others totally rejected. The committee appear conscious that their powers (if any they ever had) ceased with the Assembly that elected them, for they do not date the day of the month, because it succeeded the dissolution; it is certain they had not acted, nor even met together

before that.

I think this Province is much more moderate than any other to the fouthward, although the spirit of enthusiasm is spread, and requires the utmost vigilance and prudence to restrain it from violent excess; this will appear by the inclosure, No. 3, which was carried nemine contradicente in this town, upon an attempt some few nights preceding, by a parcel of boys and sailors, to insult a woman who sold tea. Since this vote, the town has been perfectly quiet, those who had tea have sold it without molestation. The inhabitants have now almost universally discontinued the use of Bohea tea, and I apprehend will entirely within three months of this date.

The town-clerk of Boston, who is said to be a zealous leader of the popular opposition, has been in this town about a week; immediately appears a publication in the New-Hampshire Gazette, * recommending donations for Boston, which has been followed by a notification to convene in town-meeting to grant relief to the poor of the town of Boston, on the 12th of September next. It is probable no town grant will be made, and the meeting iffue in appointing a committee to receive and transmit voluntary donations, which I believe will not afford much comfort to them, or greatly credit the charitable munificence of these town-meetings; grants are always and ever will be greater on popular pretences than private fubfcriptions, because those that vote in public pay by far the least part of the grant; as is ever the case with select men, who having power over the apportionment of rates, probably do not exercife it to their own detriment, and thence more eafily join in facilitating and augmenting fuch gifts, which, from the nature of the office, they have

^{*} The publication here referred to was written by a person whom the Governor did not suspect, and the town clerk knew nothing of it.

great influence upon. It is greatly to be wished, that gentlemen of property, experience and education, could be persuaded to accept the office of select men; but it is impracticable, if they are disinterested, and without other views than the public good, it is very laborious and unprofitable employment: And as I have nothing in my power whereby to reward such good men, they all decline, and the interior regulation of the capital falls into the hands of those who can submit to make it worth their attention.

I beg leave to affure your Lordship of my most faithful diligence in his Majesty's service; and, with the greatest deference, to hope for such favourable representation thereof.

1 am, &c.

J. WENTWORTH.

P. S. The inclosure, No. 4, met with very little encouragement, and obtained but few figners (except two or three) who were only among the lower order of people, who figned before they were divided to, and on the same invitation would fign any other paper.

J. W.

No. XXIV.

Extract of a Letter from Governor Wentworth to the Earl of Dart-Mouth, dated New-Hampshire 13th September, 1794.

ON the 8th inftant, about fun-fet, arrived in the port of Piscataqua the Fox mast-ship, having on board 30 chests of bohea tea, configned to Mr. Edward Parry of this town. Previous to this arrival it had been reported that such an event was expected: I therefore early instructed captain Cochran of his Majesty's castle, William and Mary, in

this Province, to render all the aid and affistance in his power upon the first application, as by the copy, No. I, which I beg leave to inclose to your Lordship herewith. Accordingly captain Cochran, always indefatigable in his duty, went off to the ship while at sea and proffered his service. Some sew days before this arrival, letters were received from London, mentioning the shipping of the tea, to sundry persons, whence it became very publick. A ship last week arrived at Salem with a quantity of tea on board, also consirmed the expectation of the like here. These things, added to a report from Salem that the people would not admit the tea to be landed, entered, or pay the duty there, and the enthusiastic spirit of that Province daily gaining ground both there and here, notwithstanding my utmost efforts and vigilance, rendered the event of this importation more precarious than the former, and raised almost insurmountable obstacles against its preservation.

As foon as it was generally known that tea was arrived here, the difquiet broke forth among the populace, and at a quarter past ten at night I received a letter, No. 2, from Mr. Parry, informing of his windows being broken by a mob, and desiring protection. At half past ten I sent Mr. M'Donah, my private Secretary, and my brother, who happened to be at my house, to inquire of Mr. Parry what was necessary, and, if any danger, to offer him the protection of my house, which they did; but the attempted mob having subsided, he saw there was no danger, and remained quietly and safely in his own lodgings. At three quarters past 9 A. M. of the 9th instant, Mr. Parry brought me a petition to the Governor and Council, praying the protection of government, as in the inclosed copy, No. 3. Whereupon I convened the Council within an hour,

and received advice from them to call in the Justices that were in town, and require their execution of their duty, which they, with laudable prudence and firmness immediately proceeded upon, and with desirable success.

Mr. Parry and Captain Norman were informed of these proceedings, and by me told at the Council Board, that the Governor, Council, and Magistrates, would, upon the least notice, support and protect them and their property, and that we should all be in readiness. At fix P. M. I adjourned till nine o'clock next morning, and sent for the Chief Justice, Sheriff and Attorney-General, from Exeter, where the Superior Court was and is sitting. Also Mr. Gilman and Waldron from Exeter and Dover, to make a full Council. That nothing might be wanting to execute the law, and preserve the public peace, the Council sat till two o'clock; and no further application made nor any appearance of riot or violence whatever. I proposed to the Council to consider and advise me what further was needful to be done upon the petition; this was referred to a committee to report upon, and I adjourned till Monday, the twelfth instant, ten o'clock, A. M. During this period, viz. the 9th and 10th instant,

During this period, viz. the 9th and 10th instant, the town meetings were agitated. At length a committee were chosen to consult with Mr. Parry and the Captain, who agreed to export the tea to Halifax, after being duly entered, and paying the duty. About five o'clock P. M. of 10th, Mr. Parry and Captain Norman came to me, and informed me of this agreement, and that they were obliged to the government for their protection, which they imagined was no longer necessary on this occasion. However, I judged it prudent to meet the Council on the adjournment, and to have the Council convened again in the afternoon, as there was a town

meeting fitting, and I could not be certain of established quiet 'till that was over. The vessel with the tea sailed the 11th instant, with a fair wind, for Halifax, and the town is in peace. The whole proceedings of Council affair I beg leave herewith to transmit to your Lordship in the paper No. 4.

Notwithstanding, I can still have the pleasure to represent to your Lordship that this Province continues more moderate than any to the southward; yet, at the same time, truth requires me to suggest, that the union of the colonies in sentiment is not divided nor lost in New-Hampshire, although they have hitherto been prevailed upon to abstain from acts of general violence and outrage, and the laws have their course. How long it will remain so is impossible to foresee; I confess much good may not reasonably be counted upon, while the unhappy distractions in the Massachusetts bay gain ground and spread with such violence as cannot but be extremely deplored by every considerate man.

No. XXV.

Extract of a Letter from Governor Wentworth to the Earl of Dart-Mouth, dated New-Hampshire, 15th November, 1774.

AT an adjournment of a town meeting in Portsmouth, in October last, fifty-two voters reconsidered a vote of fifty-six voters in a previous meeting, "not to grant the town monies for a donation to Boston; but that a voluntary subscription be opened for that purpose." This lesser number granted two hundred pounds proclamation money, which is near four times their Province tax.

They also proceeded to choose a committee of forty-five persons, chiefly out of the number then

present, who stile themselves, "A Committee of Ways and Means." I hear one half the number refused to act. The remainder convened together, and prevailed on Mr. Wentworth, an old gentleman of feventy-eight years, and lately extremely impaired by frequent epileptic fits, to be their chairman. General Gage having defired me to furnish some carpenters to build and prepare quarters for his Majesty's troops in Boston, the carpenters there being withdrawn, and the fervice much distressed; I immediately engaged and fent him a party of able men, which arrived to the General, and are very useful. However, this committee considered it as very obnoxious, and chose a sub-committee from among their acting members, to draw up refolves relative to this matter, which I am informed they did, and were accordingly published in the inclosed New-Hampshire Gazette, No. 940, which excited the defigned madness through the interior part of the Province, and folely gave rife to the proceedings at Rochester, as published in the Gazette, No. 942, herewith transmitted. Indeed, had not the Rochester committee acted with great prudence, and confented to call Mr. Austin before them, it is greatly to be apprehended very effential outrages would have been committed on his estate, and his person endangered through the violence of a deluded populace. From these motives only were those three gentlemen in Rochester prevailed on to act in a business the whole of which they publicly disapproved, but had not power to suppress. During these agitations Captain Holland, by desire of Brigadier General Robinfon, had purchased some blankets for the army. The committee forbad him to ship any, and he immediately fent them all to my house for fafety, whence I directly shipped them for Boston, and they are fafely delivered. In the counties of Hillfborough and Cheshire I have heard there have been several reprehensible violences committed, under popular pretences of liberty; nevertheless I took such measures, that, I am informed by the magistrates of those counties, the dissiculties begin to subside. But I cannot flatter mytels with any reasonable hopes of the legal establishment of the powers of government in this Province, until they are effectually restored in the Massachusetts Bay. I have been successful in prevailing on foldiers deserted from the King's troops at Boston, to return to their duty, through the spirited and prudent activity of Major Thompson, a militia officer of New-Hampshire, whose management, the General writes me, promises further success. The town of Exeter have followed the example of Portsmouth, and granted one hundred pounds to Boston, and I apprehend many other towns will do the like.

No. XXVI.

Extract of a Letter from Governor Wentworth, to the Earl of Darts Mouth, dated New-Hampshire, December 2, 1774.

THE forming a Continental Congress was so universally adopted by the other Colonies, that it was impossible to prevent this Province from joining therein, and accepting the measures recommended, which are received implicitly: So great is the present delusion, that most people receive them as matters of obedience, not of considerate examination, whereon they may exercise their own judgment. Accordingly on their first publication, the acting part of the committee mentioned in my dispatch, No. 69, forbad an exportation of fifty sheep, the adventure of a ship-master, bound to the

West-Indies, and caused him, at some loss, to dispose of his sheep, and unlade the provision made for them.

This day the Provincial committee nominated at Exeter by the electors of the delegates to the Congress, have published their mandate, herewith enclosed, for a general submission to the resolves of the Congress, signed by their chairman, who was

fpeaker in the late General Assembly.

It is much to be wished the Colonies had pursued the mode of representation your Lordship is pleased to mention. At present, I apprehend, the respective Assemblies will embrace the first hour of their meeting, formally to recognise all the proceedings of the Congress, and if they should superadd, it will not probably be less violent than the example which will be their foundation.

No. XXVII.

Copy of a Letter from Governor Wentworth to Governor Gage, dated 14th of December, 1774.

Portsmouth, New-Hampshire.

SIR,

HAVE the honor to receive your Excellency's letter of the 19th inft. with the letter from the Secretary of State, which were both delivered to me on Monday evening last by Mr. Whiting.

It is with the utmost concern I am called upon by my duty to the King, to communicate to your Excellency a most unhappy affair perpetrated here

this day.

Yesterday in the afternoon, Paul Revere arrived in this town, express from the committee in Boston to another committee in this town, and delivered his dispatch to Mr. Samuel Cutts, merchant of this

town, who immediately convened the committee of which he is one, and, as I learn, laid it before them. This day before noon, before any fuspicions could be had of their intentions, about four hundred men were collected together, and immediately proceeded to his Majesty's Castle, William and Mary, at the entrance of this harbour, and forcibly took poffeffion thereof; notwithstanding the best defence that could be made by Captain Cochran (whose conduct has been extremely laudable, as your Excellency will fee by the enclosed letter from him) and by violence carried away upwards of 100 barrels of powder belonging to the King, deposited in the castle. I am informed that expresses have been circulated through the neighbouring towns, to collect a number of people to-morrow, or as foon as possible, to carry away all the cannon, and arms belonging to the castle, which they will undoubtedly effect, unless some affistance should arrive from Boston in time to prevent it. This event too plainly proves the imbecility of this government to carry into execution his Majesty's order in Council, for seizing and detaining arms and ammunition imported into this Province, without fome strong ships of war in this harbour: Neither is the Province or customhouse-treasury in any degree safe; if it should come into the mind of the popular leaders to feize upon them.

The principal persons who took the lead in this enormity are well known. Upon the best information I can obtain, this mischief originates from the publishing the Secretary of State's letter, and the King's order in Council at Rhode-Island, prohibiting the exportation of military stores from Great-Britain, and the proceedings in that Colony in confequence of it, which have been published here by

the forementioned Mr. Revere, and the dispatch brought, before which all was perfectly quiet and peaceable here. I am, &c.

(Signed) J. WENTWORTH.

No. XXVIII.

Sopy of a Letter from Captain Cochran, Commander of Fort William and Mary, in New-Hampshire, to Governor Wentworth, dated the 14th of December, 1774.

May it please your Excellency,

RECEIVED your Excellency's favour of yesterday, and in obedience thereto kept a strict watch all night, and added two men to my usual number, being all I could get. Nothing material occurred till this day one o'clock, when I was informed, there was a number of people coming to take possession of the Fort, upon which, having only five effective men with me, I prepared to make the best defence I could, and pointed fome guns to those places where I expected they would enter. About three o'clock the Fort was befet on all fides by upwards of four hundred men. I told them, on their peril, not to enter: They replied they would. I immediately ordered three four pounders to be fired on them, and then the fmall arms, and before we could be ready to fire again, we were stormed on all quarters, and they immediately fecured both me and my men, and kept us prisoners about one hour and a half, during which time they broke open the powder-house, and took all the powder away except one barrel, and having put it into boats and fent it off, they released me from my confinement. To which can only add, that I did all in my power to defend the fort, but all my efforts could not avail against fo great a number. I am your Excellency's, &c. JOHN COCHRAN. (Signed)

No. XXIX.

Copy of an Extract of a Letter from Governor Wentworth, to Gov. cruor GAGE, dated Pertsmouth, New-Hampshire, the 16th of December, 1774.

IN Wednesday last after twelve o'clock, an infurrection fuddenly took place in this town, and immediately proceeded to his Majesty's castle, attacked, overpowered, wounded and confined the Captain, and thence took away all the King's powder. Yesterday numbers more assembled, and last night brought off many cannon, &c. and about fixty muskets. This day the town is full of armed men, who refuse to disperse, but appear determined to compleat the difmantling the fortress intirely. Hitherto the people abstain from private or personal injuries; how long they will be so prevailed on, it is impossible to say, I most sincerely lament the present distractions which seem to have burst forth by means of a letter from William Cooper to Samuel Cutts, delivered here on Tuesday last, P. M. by Paul Revere. I have not time to add further on this melancholy subject.

P. S. The populace threaten to abuse Colonel Fenton, because he has to them declared the folly of their conduct, and that he will do his duty as a jus-tice in executing the laws. They will never prevail on him to retract, if all the men in the Province attack him. If I had had two hundred fuch men, the castle and all therein would yet have been safe. At this moment the heavy cannon are not carried off,

but how foon they may be, I cannot fay.

No. XXX.

The fublication in the New-Hampshire Gazette referred to in No. XXIII.

TO THE INHABITANTS OF THE PROVINCE OF NEW-HAMPSHIRE.

Remember them that are in bonds as bound with them, and them that suffer adversity, as being yourselves also in the body.

Let us consider one another to provoke to love and to good works.

MY DEAR BRETHREN,

at Exeter, having recommended it to the feveral towns in this Province, to confider the distressed fituation of our poor oppressed Brethren in Boston, who are suffering the rigour of a cruel and unjust act of Parliament which deprives them of the means of subsistence for an indefinite time, and lend them what help we can afford, to support them in their sufferings: I beg leave to lay before you some considerations, which may serve to shew you not how much they need (for that your own humanity must inform you) but how much they deserve your affistance.

The people of that Town and Colony have ever been remarkable for their humanity and generofity to the diffressed. Their bounty has been extended to Jamaica, Nevis, Carolina and other places which have suffered by sires, hurricanes, earthquakes and other calamities, yea, London itself has experienced their kindness, when by the fire in 1666, great numbers there were reduced to poverty. To their tender and benevolent hand this Province in particular is greatly indebted if not for its existence, yet certainly for its protection and support, both in matters of civil government and in the furious Indian Wars during those forty years we were united to

that Colony. The fettlements here must have been broken up had we been left to stand alone, vexed as we were by intestine divisions and the want of an orderly government, labouring under poverty, and attacked by a favage enemy whose tender mercies were cruelty. The sense of their kindness was most gratefully expressed in a letter written by President Cutts and his Council in 1680, to that Colony, upon the separation which then took place by the King's Authority. And since that time, every one that is acquainted with the state of this Province, knows that it owes much of its importance to the neighbourhood of the Massachusetts government.

Though the Town of Boston have themselves suffered greatly by fires, and by the frequent spreading of the small pox among them, yet they have always been at a prodigious expense in supporting the poor, most of whom are not natives of the place, but strangers, who have fallen in among them. For several years past, as I have it from the best authorty, their annual poor's bill has amounted to about two thousand pounds sterling; besides which, there is a voluntary quarterly contribution for the poor at a

public evening-lecture in Faneuil-Hall.

Distressed persons of all forts have ever found Boston the best place to go to for relief. Prisoners of war have there found the kindest treatment, and returned captives have been received with the tenderest commiseration. Mr. Williams of Deersield, in the narrative of his captivity, bears them this testimony, 'The charity of the whole country of Candada, though moved with the doctrine of merit, 'does not come up to the charity of Boston alone, 'where notions of merit are rejected.'

Now, shall such a people as this suffer unpitied, unassisted? He who hath established this rule 'The liberal deviseth liberal things, and by liberal things

'he shall stand,'has disposed the hearts of our brethren in the southern Colonies to contribute handsomely already, and when the crops come in, we
expect they will do much more. And shall not we,
though our ability is but small in proportion to
theirs, do what we can to enable our brethren, who
are foremost in the conslict, to maintain the cause
in which they are engaged, by a firm and manly
perseverance? Will not such communications of
charity strengthen the bonds of society, and endear
us to each other? And when a firm union is thus
cemented, happy in our mutual affection, in the increased cultivation of our lands, in our frugality
and economy, we shall securely bid defiance to all
the enemies of our peace, and leave this land of
LIBERTY a facred legacy to posterity.

'Terra-potens armis, atque ubere glebæ.'

AMICUS PATRIÆ.

No. XXXI.

On the migration of Fishes. A letter from the Hon, General Lincoln to the Author.

Hingham, Dec. 12, 1791.

. Reverend and dear Sir,

SINCE I faw you last, I have found some parts of the copy of a letter I wrote to Mr. Little, with a design to convince him, that the river sish never for-fake the waters in which they were spawned, unless some unnatural obstructions are thrown in their way: That when obstructed, they do not seek new sources in which they may lodge their spawn; but that they are so strongly allured to the same rout, that they annually return to their natural river, pressing constantly for a passage into their mother

pond. That the quiet waters of the lake can alone give that nourishment and protection necessary to the existence of the egg; the preservation of which is indispensible, if an extinction of the schull is to

be prevented.

The practice is not novel in this State, when from fome unnatural obstructions, the fish have been totally expelled from a river, to re-establish them in their former numbers. About sifty years since, it was known, that at the first settlement of this town, the Alewives had a passage through it, into Accord pond, and were in fuch plenty as to give a full fup-ply to the inhabitants. This induced the people at that time to attempt the re-establishment of them, in which they succeeded by opening proper fish ways through the mill dams, and conveying the fish, in the spring of the year, in a proper vehicle into the pond; this was done by keeping it near the bank of the river, and frequently shifting the water in the vessel. After this, the fish increased annually until there was a pretty good fupply; but as there were many shoal places in the river, which required very constant attention, the expense of which and the loss sustained by stopping the mills, exceeded, in the opinion of the town, the advantages of the fish, the business was neglected; so that for a number of years they have been perfectly cut off from the pond. Notwithstanding some of the fish annually return to the mouth of the river urging a passage up; but they are decreased in number and reduced in fize.

We shall find on examination, that the fish though of the same kind, in one river are much larger and fatter than in any other river in its vicinity. If these sish were suffered to intermix, the difference now so very apparent would not exist. If the sish are not directed by some laws in nature, to the rivers in which they were spawned, how shall we account for the Salmon being in Connecticut river, and in Merrimack, and the rivers lying between, perfectly destitute of those sish. Was there not something irresistibly enchanting, in the waters in which they respectively originated, we should probably find some straggling salmon in the intermediate rivers.

Whilft I refided in Philadelphia in 1782 and 1783, I discovered that the Shad brought to market from the Schuylkill were about one third part better than those taken in the Delaware. These fish come up the bay together in the fpring, and take, each schull its proper river; about five miles below the city; they are caught but a few miles above it, fo that in a few hours after they divide, they fall into the nets of the fishermen. Were there not fomething in the nature of the waters of these rivers, by which the fish are allured to them respectively, we certainly should find the fish in the different rivers exactly alike, for we cannot suppose that they experience any material change between the time of their feparation and the time of their being caught. As the Shad taken in the Schuylkill are and always have been of a much superior quality to those taken in the Delaware, we must suppose that there is, in the river first mentioned, food for the fish more nutritive than there is in the latter. I cannot think it a very romantic idea, that the waters are fo impregnated with certain particles which shall be sufficient to allure the fifh to those rivers in which they were spawned, or that they are invited to them by the returning fry, on which they have been accustomed to feed. That they do feed differently, fome on food more nutritive than others, cannot be denied; to this is owing the different fize of the fish. They

leave the rivers under different circumstances, and

fo return to them again.

The thad and alewife frequent the fame waters in which they drop their spawns. The shad, prior to this, work up a little circular sand bank, on which the spawns are lodged, and are guarded from that destruction to which they would be exposed from the small sish, did not the male constantly play around the deposit. While the eggs or spawns of the alewise are secured by being deposited in shoal water, which prevents their being annoyed by the large sish.

The idea that fish always return to the same rivers in which they are spawned, will not appear improbable when we consider what are the general laws which seem to controul the whole sinny tribe; and what would be the probable consequences should

they be thrown down.

On the shores of the United States we find fish of different kinds, each fupplying a certain proportion of the inhabitants. These are restrained by some laws in nature to their own feeding ground; they do not invade the rights of others, nor are their rights infringed by any. New-York is in the neighborhood of Rhode-Island, and that State is in the neighbourhood of this, yet each State has a very different fish-market. So it is with Pennsylvania and the States fouth of it. Notwithstanding this, all are supplied, and with kinds of fish peculiar to each. The Cod-fish which occupy the banks lying between the latitudes of 41 and 45, are very different on the different banks, and are kept so distinct, and are so similar on the respective banks, that a man acquainted with the fishing business, will separate those caught on one bank from those caught on another, with as much ease as we separate the apple from the pear.

It will be acknowledged that there can exist but

a certain number only of fish in any given space; was not this the case, as they are so prolific in their nature they would, from their natural increase, soon so multiply, as that the world, if I may be allowed

the expression, would not contain them.

On the banks there appears nearly as many fish as ever, notwithstanding the great numbers annually taken. The grand bank was, three years ago, manifestly overstocked, there were more fish on it than could find support; those taken were evidently on the decline, they were very thin, the substance tender; it could not be hardened and preserved by falt; many of them would yield before the knife in splitting and fall to pieces before they could be conveyed to the slakes. The cause is not known, probably the spawns of that season were better preserved than they had usually been.

Were those restraining laws of nature, which now confine the different schulls of fish to their own limits, thrown down, and all could wander without controul there would be the most iminent danger of a total destruction of nearly the whole kind, as well in the rivers as on the banks, for, as was said before, there can but a certain number exist in a given

space.

Permit me farther to request, in support of the doctrine advanced, an attention to that system and order so conspicuous in the operations of nature, and the great regularity preserved among the things of creation, animate and inanimate, by that Wisdom

which made and governs the world.

Let us take a view of the different nations dispersed over the face of the earth, by Him who originally fixed bounds to the habitations of men, and as a restraint to them, and that each tribe should retain its own limits, he gave to each nation a different language: We find the different lations and tribes, though possessing very different climetes, and if we were to judge, enjoying the means of compared as grees of happiness, severally tenacious of the limits assigned them, and where a God is acknowledged, they very fincerely and universally thank him that they are favoured above their fellow men.

Was it not for the superintending care, and the influence of the Governor of the universe, who scatters in the paths of men such motives as fall with weight and conviction on their minds, and lead them to prefer their climate above any other, no inhabitants would be found in the burning sands under the torrid, nor on the frozen cragged mountains under the frigid zones: We find however under each, multitudes of people, who are so fitted for their respective situations, that they are not only happy, but are really partial to the place assigned them, and envy not the dominion of others, and seldom or never invade them, but from motives of avarice, pride and ambition.

We find that the people who inhabited the American shores on the first discovery of them, were divided into little kingdoms or tribes, each speaking a different language, and were enemies one to the other; hence they were preserved from samine and want, for they depended principally upon the spontaneous growth of the earth, and upon sishing and hunting for their support. Whatever kept them as under was an act of mercy; with their ideas, they could not have lived compactly, ruin must have been the necessary consequence of the attempt.

What short of that influence necessary to preserve the natural order of things, could have prevented mankind from abandoning the more inhospitable parts of the globe, running together and uniting in climes the most friendly and pleasant, and much the greater part of them becoming thereby their own exactioners. Although from an high cultivation of the earth, food may be drawn for a great multitude of people, yet population cannot exceed certain bounds; whenever that takes place, the falubrity of the air is destroyed, contagion rages, the people sicken and die.

Let me now point you to the birds of passage, and ask that you would permit your ideas to follow them in their flight from fouth to north, in spring, and from north to fouth, in autumn, and you will find that they are annually pointed to the fame objects, and are as conftant in their flight and as regular in their course as are the seasons. We may, at a particular time of the year, trace the swallow into its hiding place, and the robin and the lark to the forests, where they retire for shelter from the inclemency of an approaching winter, and fee them in the morning of spring returning to the same habitations and branches, and often to the fame nefts they occupied before, and which from necessity they had abandoned. Different fowls, natives of different climes, are fo fitted to their native air, that many of them cannot exist out of it.

The rattle snake, the most poisonous reptile in this part of the country, is circumscribed in his limits, and cannot exist beyond a certain degree of northern latitude, nor can he be transported across the Atlantic. By what laws in nature he is restrained we know not; that he is restrained is a fact, and is not known in one part of this Commonwealth while much dreaded in another. The same restraint lies on different reptiles in the southern States, and though one part are in a degree endangered by them; yet others are perfectly free from their poi-

fonous stings. These animals, necessary on the whole, as are the slies, which multiply in proportion to the impurity of the air by which they are surrounded, make a part of the great whole, and have, I doubt not, a benevolent commission, in the execution of which the happiness of man is materially concerned.

Beafts of the most ferocious kind, necessary in the chain, are peculiar to certain climates, and are the least dreaded where most known: A belief that they will not exceed the limits assigned them, prevents their giving terror to others; while those of a different kind serve for our use, are sitted to live in the various climates in which they have been placed, and seem, by some instinct of nature to be perfectly submissive; and are bound with much ease to

the limits affigned them.

When we take a view of the whole of the order established originally, and which has been preserved in the world; when we fee man dispersed over the face of the earth, and an evident defign that he should remain fo dispersed, and when we behold, that in confequence thereof, care has been taken that under every circumstance of civilization, or barbarism, a full supply of food can be obtained by each, in a way best fitted to themselves; when we fee the birds of passage, anxious to perform their part, and (which is important indeed to fome of the inhabitants in the higher latitudes) taught to fly in winter to climes more friendly to their existence, and led back to nourish the waking Laplander, after a winter of retirement and fleep. When we fee the care exercised towards man evinced in the existence of even the most poisonous animals, fitted to inhale the more fubtil and pointed particles floating in air, which are too keen for our habits, and obferve the irritating fly, bufily employed in fipping the putrid matter, in the first stages of it, which otherwise would float incompatible with a salubrious atmosphere, necessary to our happiness. When we see the natural timidity implanted in the nature of the most ferocious animals, sleeing at the approach of man; and the docility of those more immediately intended for our use. When we carefully review these things, and study with attention the works of nature, the great book of God, which is understood cannot mislead, and our minds are guided by proper considerations, we shall be freed from all anxious fears, lest one part of the system should clash with another, but instead thereof we shall find ourselves perfectly satisfied in the belief that each will occupy its own orb until the whole shall be dissolved.

I have little doubt in my own mind but that every river whose source is in a lake or pond, where the waters are quiet, might with great ease be replenished with fome kind of fish or other. I think there was a time when they were filled. Could we fucceed in this measure the advantages would be important, for it would multiply our cod and other ground fish about our shores, in proportion as we increase the small river fish, for they are the proper food of the ground fish, which in pursuit thereof, are allured quite into our harbours, and give us a more easy fupply. We have undoubtedly been criminally inattentive to the propagation of the oyster in different parts of our shores; we can probably fill our channels with these shell fish with much more ease than we can fill our pastures with herds and flocks.

I have a fatisfaction in fubmitting these observations to you, which is seldom to be enjoyed, viz. that I shall receive a full compensation—one smile will do it, that I am fure they will beget, for you must long since have been taught that we had better smile than weep at the vanity of others.

With esteem and affection,

I am always your friend,

Rev. Mr. BELKNAP.

B. LINCOLN.

No. XXXII.

On the same subject.

A letter from the Rev. DANIEL LITTLE, of Wells, to the Author.

Wells, Dec. 13, 1791.

DEAR SIR,

GENERAL LINCOLN'S letters contain many curious and pleafing arguments to prove that "river fish always return to the rivers and ponds where they were spawned." The thought was perfectly new to me, till I met with it, about three years ago in a manuscript of the General's, which I had the honour of perusing, and which gave rise to a correspondence on that and some other subjects. I wish your inquiries may occasion some useful publication on this head.

In the course of my information since, I have met with nothing that militates against the General's

arguments; but rather the contrary.

Some time ago, I lodged at the house of Col. Baldwin of Woburn, and spent the evening with his aged father; who, in the course of conversation, informed me, that a canal was made, within the limits of his acquaintance, to extend the feeding ground of the river fish from one pond to another; but that

the fish never removed from their original and native pond; though the communication was short and

the waters plenteous.

There

When in the county of Lincoln, the last summer, I spent several days among the people settled on the banks of the Sebasteecook, ten miles from its junction with the Kennebeck. The streams that fall into Sebasteecook are numerous, and abound with the small river fish, such as alewives, &c. The people say that at the time of the running of these fish, they ascend the streams at distinct periods in succession; and that the schulls never separate, interfere or transgress in their way to their respective ponds or lakes.

The fish ponds and the river fish might be greatly improved by removing the natural obstructions in some rivers and carrying into the distant ponds live fish to generate a new class. By that means new settlers might conduct the fish to the doors of the

present and succeeding generations.

I am, dear Sir, your fincere friend and brother, DANIEL LITTLE.

No. XXXIII,

GN POPULATION.

A Letter from the Rev. James Freeman, [who had seen this work in manuscript] to the Author.

Boston, Feb. 29, 1792.

DEAR SIR,

THE principles, upon which you have calculated your Table of Population, for the State of New-Hampshire, appear to me not to be just. Supposing that the annual increase of inhabitants is

the fame, you conclude that their number has doubled in lefs than nineteen years. It is faid to be a good rule which works both ways. But if the number of people in New-Hampshire increased by the same ratio previous to the year 1767, it doubled in lefs than seven years; for diminishing 52700 by 3883, your mean number, it is reduced in the year 1760 to 25519. And, on the other hand, should the annual increase be no more in future than 3883, above six and thirty years will elapse before the inhabitants of New-Hampshire will be double the

number they were in 1790.

The inhabitants of a country augment, as far at least as depends upon natural increase, in the same manner as a sum of money put out upon compound interest. A hundred pounds at 6 per cent. at the end of the year, become £106, which new principal, at the end of the second year, produces more than £6. Professor Wigglesworth, in his Calculations of American Population, has explained the manner of constructing tables, from which the annual increase of inhabitants, by natural population, may be estimated for a series of years, provided their number at the beginning and end of the series, be ascertained by actual enumeration, or by any other accurate mode.

The number of inhabitants in New-Hampshire in the year 1767 was 52700, and in the year 1790, 141885. Here we have the number ascertained at the beginning and end of a period of 23 years. Suppose 52700 to be equal to 1. Then we have this series in geometrical progression, as

1: $a :: a : a^2 :: a^2 :: a^3 :: a^3 :: a^4 :: to a^2 3$.

That is, As the number of inhabitants in the year 1767 is to their number in the year 1768, fo is that

number to their number in the year 1769, and fo on

in the same proportion to the year 1790. But $a^{23} = \frac{131888}{25700} = 2,692315$; the root of which or a is equal to 1,044001. By involving the value of a to its 23d power, we have the amount of unity to the 23d year; the index of the power denoting the particular year.

The value of a being thus involved we have the

following:

TABTE I. year's amounts of unity 1768 1,044001 = 4 1769 1,089939==a3 $1770 1,137898 = a^3$ 1771 1,187967 = 4 1772 1,240239 == 105 1773 1,294812== 46 1774 1,351785 == 47 1775 1,441126 3 1776 1,473364 = 29 1777 1,538194 = 210 1778 1,605877 == 11 1779 1,676538 == 212 1780 1,750308 = 413 1731 1,827324= 414 1782 1.907729=4.5 1783 1,391672 = 216 1784 2.079309 = a¹⁷ 1785 2,170302 = a¹⁸ 1786 2,266320 = 19 1787 2,356042-120 1783 2,470151 = 21 1789 2,578842== 022 1700 2,692315-423

If the number corresponding to any particular power of a be multiplied by 52700, the product will be the amount of the inhabitants of New-Hampshire, for the year denoted by the index of the power of a, and which in the table is placed in the fame line. For example, if we multiply 52700 by 1,351785, which in the table is placed in the fame line with 1774, the product, rejecting the decimal parts, will be 71239, which is a little more than one half of 141885. Confequently, upon the fupposition, that the increase of inhabitants in New-Hampfhire was uniform, during the period included in this table, it may be

concluded, that their number was doubled in a little more than fixteen years.

But from the furvey taken in the year 1775, it appears that the increase was not uniform. At that time the number of inhabitants in New-Hampshire, was found to amount to 82200, whereas, if it be calculated by the table, it will be no more than 74373. It is evident therefore, that the augmentation of the people was more rapid between the years 1767 and 1775, than between the years 1775 and 1790. This difference can easily be accounted for. The late war undoubtedly checked the progress of population, as you have clearly shown.

To afcertain at what rate the inhabitants of New-Hampshire increased between 1767 and 1775, a period of 8 years, let us suppose, as before, 52700 to be equal to 1. Then $a^8 = 1,559772$, that is $\frac{8 \cdot 2 \cdot 0 \cdot 0}{5 \cdot 2 \cdot 7 \cdot 0 \cdot 0}$, the root of which, or a, is 1,056928, which being involved to its 13th power, will give the amounts of unity as in the following:

TABLE II.	
amounts of unity	
1,056928==a	
1,117098=42	
$1,120692=a^3$	
1,248908=4	
1,320077=45	
$1,395153=a^6$	
$1,474577 = u^7$	
1,559772=a8	
$1,648568=a^9$	
1,743418=010	
1.842669==211	
1,948012=012	
$ 2,058910=a^{13} $	

From this table it is evident, that the people of New-Hampshire, if the progress of population had not been checked by the war, would have doubled their numbers in less than thirteen years; for 2,058910, which corresponds to the 13th power of a, multiplied by 52700, will produce 108504.

The peace of 1783 prevented the further destruction of men. It may therefore be presumed that the progress of population was the same, or nearly the same, between that year and the year 1790 as between the years 1767 and 1775. Allowing it to be the same, it will be easy to determine the number of people in New-Hampshire in 1783. The difference between 1783, and 1790 is 7. If therefore we divide the number of inhabitants in the year 1790 by the sum corresponding to the 7th power of a, the quotient will be the number in 1783; but $\frac{141885}{1374877} = 96220$.

We have here found a 4th number, from which we may determine the progress of population from 1775 to 1783, a period of 8 years. Suppose 82200, the number in 1775, to be equal to 1. Then $a^{8} = \frac{96220}{83200} = 1,170559$, the root of which or a, is 1,019880, which being involved to the 8th power, will give the amounts of unity, as in the following:

TABLE III. years, amounts of unity 1776 | 1,019880 = a1777 1.040156=a2 $1778 | 1,060832 = a^3$ 1775 1,081924=44 1780 1,103433==a5 $1781 | 1,125370 = u^6$ $1782 | 1,147742 = a^7$ $1783 | 1,170559 = a^8$

Calculating the number of inhabitants from 1767 to 1775, and from 1783 to 1790, by Table II, and from 1775 to 1788 by Table III, we may form the following Table of Population for New-Hampshire.

TABLE of Perulation,

1773 73524 1774 77710 1775 82200 1776 83834 1777 85500

87200 1778 1779 88934 1780 90702 1781 92505 1782 94544

1783 96220 178 101696 1785 107485 1786 113506

1787 120170 1788 127061 1739 134241

1790 141885

From this table it appears, that the number of inhabitants in New-Hampshire has doubled in less than eighteen years: for the half of the number taken by the census, viz. 70942, falls between the years 1772 and 1773.

This conclusion may be confidered asvery near the truth. But it ought to be observed, that this table of population is not perfectly exact: for the augmentation of numbers in New-Hampshire has undoubtedly arisen, in part, from immigration. It is impossible to determine with precision, what the amount of this immigration is. But we may give a probable conjecture as to the accession of inhabitants, which it has eventually produced. For if we can afcertain the number of years, in which the inhabitants of

the United States, collectively taken, have generally doubled their numbers by natural increase, we shall be furnished with data, by which we may estimate the natural increase of inhabitants in New-Hampshire from the year 1767 to the year 1790, which number being substracted from the number taken by the census, the remainder will be immigrants, and the natural increase which has arisen from them.

Dr. Wigglesworth supposes that the number of people in the United States is doubled by natural increase in 25 years. Multiplying, therefore, 52700, by $1,89211529=a^{23}$ in his Table the product is 99714, the difference between which and 141885 is 42171.

But I have reason to believe, that the inhabitants of the United States double their numbers, by natural increase, in a less period of time than Dr. Wigglefworth imagines. In a Table, which I have cal-culated for eight of the United States, viz. New-Hampshire, Massachusetts, Rhode-Island, Connecticut, New-York, New-Jersey, Maryland and Virginia, including Kentucky, I have made a22 equal to 2,0291905; that is, by this Table, the number of inhabitants in these States, collectively taken, doubled in less than 22 years, during a period ending in the year 1790. Pennfylvania, one of the States not included in the calculation, estimating by the increase of its rateable polls from 1770 to 1786, doubles its numbers in less than 22 years. If this State, therefore, were added, it would render the period of doubling still shorter, as Massachusetts, Rhode-Island and Connecticut, compared with the other States contained in the calculation, increase very flowly, on account of the perpetual emigrations which are made from them. The other States

not included in the calculation are Vermont, Delaware, North-Carolina, South-Carolina, and Georgia, beside the Western Territory. I do not possess sufficient materials, to estimate with accuracy, the progress of population in these States. But it is well known that Vermont, North-Carolina, and Georgia are rapidly increasing. If a calculation could be formed upon the whole of the United States, I am of opinion that it would be found, that, by natural increase, and by emigration from foreign countries, they have actually doubled their numbers in 21 years, notwithstanding the destruction of men by the late war. The accession of foreigners bears no perceptible proportion to the natural increase of nearly four millions of people. Making however a very liberal allowance for it, I think I am justified in concluding, that the natural increase of inhabitants in the United States, may be estimated by the Table above mentioned. In this Table a22 is equal to 2,02919050, and a is equal to 1,03296843, confequently a²³ is equal to 2,09608972. If therefore, we multiply this number by 52700, the number of inhabitants in New-Hampshire, in 1767, the product will be 110463, the number they would have been, by natural increase, in the year 1790; which being deducted from the number taken by the cenfus, the remainder is \$1422, which may be confidered as the flock formed by immigration and the natural increase arising from it. Making use of the same Table which I have just mentioned, there is no great difficulty in determining the number of immigrants, which New-Hampshire has received, one year with another, for the period of 23 years, ending in 1790. Let z represent this number.

Then $z+za+za^2+za^3+za^4+za^5+za^6+za^7+za^3+za^9+za^{10}+za^{11}+za^{12}+za^{13}+za^{14}+za^{15}+za^{16}+za^{17}+za^{18}+za^{19}+za^{20}+za^{21}+za^{2}=31422$. That is, in numbers, 33,53096515 z=31422.

Consequently $z = \frac{3}{3} \frac{1422}{7353005675} = 937\frac{1}{17}$

Multiplying this number by 23, the product is 21,-553, the amount of immigrations into New-Hampfhire in 23 years. As it is your opinion, that the emigrations from the neighbouring States were not fo large during the five first years of the war, as before or fince, for the fake of a round number, I will fuppose that New-Hampshire, during the remaining 18 years, annually received an addition of 1000 perfons, beside the children who were born in the course of the year. From these data a more accurate Table of population might be constructed, than that which I have given; but it would not differ fo materially from it, as to affect my general conclusion; for the half of the number taken by the cenfus in the year 1790 would still fall between the years '72 and '73. I would therefore consider it as an established fact, that the number of people in New-Hampshire has actually doubled in less than eighteen years.

It is a fentiment which I have heard you express, that there will still continue to be a rapid population in New-Hampshire for many future years. The State at present is thinly settled in proportion to its extent, containing not quite sisteen inhabitants to one square mile. In Connecticut, which is increasing in numbers, there are sisty-one inhabitants to a square mile; and probably as many in Rhode-Island. But there is not so much water and unimproveable land in Connecticut as in New-Hampshire. The latter State you inform us, page 13, contains 9491 square miles; from which, if we

deduct I56 fquare miles for water, and 480 fquare miles, for uninhabitable mountains, the remainder is 8855, by which, if we divide I4I885, the quotient is I6. The habitable parts of New-Hampshire then contain fixteen inhabitants to a fquare mile. You have therefore reason to conclude, that the rapidity of its population will not be checked for many years. Presuming that the State will annually receive a thousand immigrants, I will venture to calculate its population from the year I790 to the year I800, at or before which time a new census will be taken, by which it will be discovered whether my predictions be just or not.

Calculated by the Table referred to above, in which a is equal to I,03296843, and I000 added annually for immigrants.

I fear that your patience is now exhausted with my tables. I will not therefore trespass further upon your time, than to add by way of apology, that no calculations can be too minute, which tend to demonstrate the increasing prosperity of a State, the inhabitants of which have so long been distinguished for their bravery and love of freedom.

With fincere respect, I am, dear Sir, your affectionate brother, JAMES FREEMAN.

Rev. Jeremy Belknap.

N. B. Since the foregoing letter was received, inquiry has been made of the Secretary whether there be any documents in his office from which the num-

ber of people in New-Hampshire, previous to 1767 can with any probability be ascertained. After spending several days in searching the books and siles, the Secretary writes that 'The only numbers of rateable polls to be found in his office from 1742 to 1767 were as follows:

1742—5172, no returns from Nottingham, Barrington and Gosport.

1753-6392

1767-11964.

It may be asked, what is the proportion between rateable polls and inhabitants? If the number of inhabitants as estimated in 1767, viz. 52700 be divided by 11964, the rateable polls, the quotient will be nearly 4-, which gives the proportion for that year. But whether the same will hold for other years is uncertain. New-Hampshire was peculiarly circumstanced in respect of population, for sisteen years preceding and sisteen years succeeding the conquest of Canada in 1760. During the former period the population was very slow, excepting by the natural increase. During the latter the immigration was extremely rapid. It is also to be noted that in the old towns there is a much greater proportion of old men, women and children, than in the new settlements; consequently the new have more rateable polls in proportion to their numbers than the old towns.

Additions to the Table of Longevity, page 188, lately re-

Since that Sheet was printed, the Rev. Mr. PIKE of Somerfworth died, in the 89th year of his age; and the Rev. Pearson Thurston is ordained in that place.

Of the first settlers in Rochester who have died within sixteen years last past the ages were as follows:

Above 100 years — 1 $\begin{array}{c}
90 \text{ and } 100 & 2 \\
80 \text{ and } 90 & 14 \\
70 \text{ and } 80 & 20 \\
60 \text{ and } 70 & 4
\end{array}$

41

Now living.

90 and 100——1
80 and 90——9
70 and 80——5

15

Males 7. Females 8.

Of the first settlers in Barrington the number now living and their ages are as follows:

living and their ages are as follows: $\begin{cases}
90 \text{ and } 100 - 1 \\
80 \text{ and } 90 - 10 \\
70 \text{ and } 80 - 3
\end{cases}$

14

Males 11. Females 3

FINIS.















