NOTICE: This material may be protected by copyright law (Title 17, United States Code)
Phil. Friday

Sir,

My attention has been attracted by your remarks on Jefferson's Notes on Virginia, which I prepared some time ago for the North American. A publishing house of high character in this City, to whom I showed your notice, desire to procure an annotated copy of that work. They inform me that the gentleman who is the proprietor of the Amnerica, has any objection to allow me to see it, in Baltimore, where I expect to be very shortly. Aublishing house of great respectability have been desirous to print and suppress a new edition with notes, and this copy would be certainly an object indeed in such an undertaking. I do not speak on their behalf, but I know that your report of the importance of this addition would have its weight in inducing them.
to take measures to obtain them, and I wish very much to see the work disappear with every advantage.

Very truly,

Yours,

E.D.A.

April 16, 45

To the Editor of the
"Baltimore American"
R. H.
Office of the American
Baltimore, April 15, 1845

E. D. [Signature]

Sir,

We have delayed replying to your letter of Friday last until we could see Gen. John Smith, the owner of the book you allude to. Harris conocer cannot state that it will afford Gen. D. the greatest pleasure to have you the work, which he will do when you call.

Very respectfully,
yours.

[Signature]
Washingon, June 13th, 1846.

Dear Sir:

I received your very acceptable letter in due season, and regret that it has not been in my power to give you an earlier answer to your inquiries respecting the lost copy of "Jefferson's Notes on Virginia," which you noticed in an editorial paragraph of the "Union," a few weeks ago.

The gentleman who lost the volume, has informed me that it is the original manuscript copy, written on letter paper, which he was so fortunate as to procure in the year 1835, when he was on a visit to Monticello, and its neighborhood. He says that he left it in the hands of a friend in Washington at that time, and that on inquiring for it a few weeks ago, when he returned to this city, he could not obtain any information respecting it. In the hope that it was in the hands of some person who would restore it to him, he caused the paragraph you noticed to appear in the "Union," but, to this time, he has not heard anything respecting it, and I don't think it very probable that he will ever recover it. He says that it was his intention to present it to the Library of Congress, when he purchased it, and
he regrets now that he did not bring the book to the Library at that time.

In addition to the copy of the "Notes" mentioned in your letter as being in the Library of Congress, we have a 12mo. copy, printed in Philadelphia, in the year 1825. I have never seen any other copy of the work.

I send to you, accompanying this, the "Supplement to our "Catalogue," for the years 1844 and 1845. If you lack any other, please let me know it, and it will afford me great pleasure to supply you.

Wishing you health and prosperity, I remain, my dear Sir, very sincerely,

Your friend and Servant,

John T. Meehan.

Edward B. Ingraham, Esq.

Philadelphia.
Phil. Saturday.

I saw some months ago, when in Baltimore, your copy of "Jefferson's Notes on Virginia," in which there are many additions by the author, and have requested of a very respectable publishing house, to ask if you are willing to dispose of the copy, and the right to print from it, and what sum you would deem an adequate compensation for the copy and such right. I mentioned the existence of your copy to Messrs. Stockdale, upon learning that an Edition was in contemplation which would be a mere reprint of that of 1825, or 1807, which are, verbatim, from the 1st of Stockdale.

Yours truly,

Feb. 28, 1816.

John Green, Esq. (signatory)
Baltimore.
Matt. 2 March 1846

Dear Sir,

Mr. Park Benjamin will undertake the printing of my copy of Jefferson's notes; in consequence of which, my notes will be available. He will be unable to do it as quickly as I had hoped. With his usual care and attention, we can expect to receive them in due course.

I value the work of these notes and will deliver them to my publisher, with the amendments and additions in the Jefferson's notes. If your publisher should desire to make any changes, he can do so before they are sent to the printer, for the presses are not yet set up for the work.

I send you a copy of the manuscript, and I hope you will be pleased with the outcome of this project.

Yours sincerely,

I. Spear

E. B. Ingraham

Phila.
Phil. Wednesday

Sirs,

Your letter of the 2d March was received this morning, and I communicated it to your view of the value of the copy and copyright of Jefferson's Notes to the publisher, on whose behalf I wrote to you. Their answer was, that the amount far exceeded their idea, estimate, that they declined the offer. So far as I am concerned with the matter, I shall beg to hope the new edition, the value of which I can appreciate from the view I had of your copy, the regard that this city has not the honor of suppressing it in the publication.

J. [Signature]

4 March 1866
Phil. 7 Tuesday.

Sir,

I have been requested by the Publishers on whose behalf I formerly applied to you, to ask if the publication of your edition of Jefferson's Notes on Virginia be still looked on as expedient. The retirement of W. P. Benjamin from the Western Sentinel requires an edition of the Work to be called for, and they wish to put one to press, but do not wish to interfere with your edition if it is to be published. They have also requested me to ask whether it would suit your views to allow them to print an edition from your copy, and deliver you, for the privilege, a certain number of copies.

Property

Ed. Nov. 1816.

S. Spear Smith Equi
Baltimore. Md.
Nov. 1846

That place, when are 18 holes
in 7 days,

It is true that the

amidst a crowd of

more laborious

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agree to verbally

the worst, but

Indeed, it

to literature.

if you will then-

in order to make

which I have

offered. My

as to wondering

in writing a biography

and besides,

I doubt the

ill you do me the

part of the

my son were

care of J. C. H.

safety with the

letter.
Avon Wood 14 Nov. 1846

Dear Sir,

Your letter found me at that place, six miles from Charles town, where I have remained, ending the 4th. — I hasten to say that instead of revising the publication of Jefferson's Notes, I am now wholly occupied in preparing it for the press. The task is more labour than I had supposed, as the notes, written in a variety of languages, the fuller I go into the work, the more convinced I am of its value. Indeed, it will be a great addition to our stock of literature.

I will probably visit Phila: if you will be there, between the 7th and 15th, in order to have some good description of the work, in which I have taken the freedom of offering you kind offices. My circumstances are now such, as to render every donation of especial importance.

I have thought of preparing, to the work, a biographical sketch of myself. But now, I want a much to the bulk, as the cost of the volumes, we besides, her life has been so often written, that I doubt the utility or propriety of it. Will you do the honour of giving me your opinion, and that of the public, from whence my son wrote it. My address here is, care of J. G. H. Price, Lehigh Co. I am very desirous of meeting Mr. S. P. Smith.
Balt. 15 Dec. 1846

Dear Sir,

Mr. Barney has informed me of your rapid transit from the town, as I had intended, even with your note of yesterday, to write to you today. I shall probably be in Philadelphia next week.

Previously however, to my having the pleasure of seeing you, allow me to state my opinion on one or two points. First, as to the new mother, would you note it in one way, or let it take its chance. I have been, by misunderstanding it, for eighteen, but stopped in order to have the opinion of a publisher. My own notes, have the word 'editor' attached to them. I will note to not distinguishing the new text if noted by Mr. J.

Secondly, might not the more prepared for the notes, by taking due to be the better, instead of one of more modern date? I have dropted the marginal notes, and placed them at the bottom of the page. The examiner this I will, instead of pasting the leaves in a blank edge book, have attached the new mss by washers cancelling the alternate pages, of the two printed similar editions read by me. Still, if you deem it absolutely necessary to change their, it can be done.

I have written an 'Editor's Notice' containing
a history of the work as one to the present time
and I have undertaken a brief memoir of Merton
which will not occupy more than two or three pages

Could you not send me and the Sessions' version
of Logan's speech? It shall be carefully returned

I am not quite sure, or rather not sure at
the time I.

You are aware, that he gave an entire new face to the oration paragraph, with

The French biogrophy of Merton, by which
I have been induced, &c., &c., Constable General
of France in the U.S., but the letters of 1839 to
are printed, attached to the French Description. All
he not have acted in both capacities, as would
you find out in Philadelphia when he filled the
former post. I have used the letter only, but
would make the change, if I had an authority for

Is Head's hotel still open, in the old

place?

I must again apologize for being you so
much trouble, but Mr. Barney informed me that
you would take pleasure in offering me the aid

in your favor—very respectfully,

I. Sweig

Let & Swagman of

Philadelphia.
Bath, 18 Dec. 1846.

Dear Sir,

I thank you for your very kind letter of 16th last week, with its interesting enclosure. May I add it to the other pieces justificatives, if I think proper on reflection, so to say?

It will be necessary now, to recopy such of the new matter, as I had too hastily underscored. As to the rest, it will perhaps be better to leave it to the publisher, who I still think the most liberal theme, very well worthfully you think, I.

S. [Signature]

Dr. [Signature]

Philadelphia.
Bath. 29 May 1849

My Dear Sir,

Be so good as to carefully bundle up the notes on Virginia, left with you, and to return them to me, by your leave here, when he comes on. For, it is not in my power, to accede to either of the two proposals of Mr. Linsley of Blackiston. To the second of them, I can only add to say, that an advance by me; of $300, is wholly out of the question. And as the other, I am to enjoy no other advantage from the publication, than the honors of editorship, having, first, some through much labor and secondly, to become capable of the printer, before obtaining these honors, I must decline them altogether. If it be possible that I may misunderstand the latter proposal, must be it as it may, I cannot consent to nothing short of a publication, or the entire of the profits, and a division of the profits.

With my best regards to Madame and to Mademoiselle, I am truly yours faithfully,

I. Rain Smith.

P.S. I will publish next winter, if I can.

Phila:

P.S. I will publish next winter, if I can.
NOTES
ON THE
STATE OF VIRGINIA.
WRITTEN BY
THOMAS JEFFERSON.
ILLUSTRATED WITH
A MAP, including the States of VIRGINIA, MARYLAND, DELAWARE, and PENNSYLVANIA.

LONDON:
PRINTED FOR JOHN STOCKDALE, OPPOSITE BURLINGTON-HOUSE, PICCADILLY.
M.DCC.LXXXVII.
ADVERTISEMENT.

The following Notes were written in Virginia in the year 1781, and somewhat corrected and enlarged in the winter of 1782, in answer to Queries proposed to the Author, by a Foreigner of Distinction, then residing among us. The subjects are all treated imperfectly; some scarcely touched on. To apologize for this by developing the circumstances of the time and place of their composition, would be to open wounds which have already bled enough. To these circumstances some of their imperfections may with truth be ascribed; the great mass to the want of information and want of talents in the writer. He had a few copies printed, which he gave among his friends; and a translation of them has been lately published in France, but with such alterations as the laws of the press in that country rendered necessary. They are now offered to the public in their original form and language.

Feb. 27, 1787.

Con-

Barthe Marbois
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## QUERY
QUERY I.

An exact description of the limits and boundaries of the state of Virginia?

Virginia is bounded on the East by the Atlantic: on the North by a line of latitude, crossing the Eastern Shore through Watkins's Point, being about 37° 57'. North latitude; from thence by a straight line to Cinquac, near the mouth of Patowmac; thence by the Patowmac, which is common to Virginia and Maryland, to the first fountain of its northern branch; thence by a meridian line, passing through that fountain till it intersects a line running East and West; in latitude 39° 43'. 42.4" which divides Maryland from Pennsylvania, and which was marked by Messrs. Mason and Dixon; thence by that line, and a continuation of it westwardly to the completion of five degrees of longitude from the eastern boundary of Pennsylvania, in the same latitude, and thence by a meridian line to the Ohio: On the West by the Ohio and Missipi, to latitude 36° 30'. North: and on the South by the line of latitude last-men-
mentioned. By admeasurements through nearly the whole of this last line, and supplying the unmeasured parts from good data, the Atlantic and Mississippi, are found in this latitude to be 758 miles distant, equal to 13°. 38'. of longitude, reckoning 55 miles and 3144 feet to the degree. This being our comprehension of longitude, that of our latitude, taken between this and Mason and Dixon's line, is 3°. 13'. 42.4". equal to 223.3 miles, supposing a degree of a great circle to be 69 m. 864 f. as computed by Caffini. These boundaries include an area somewhat triangular, of 121525 square miles, whereof 79650 lie westward of the Alleghany mountains, and 57034 westward of the meridian of the mouth of the Great Kanaway. This state is therefore one third larger than the islands of Great Britain and Ireland, which are reckoned at 88357 square miles.

These limits result from, 1. The antient charters from the crown of England. 2. The grant of Maryland to the Lord Baltimore, and the subsequent determinations of the British court as to the extent of that grant. 3. The grant of Pennsylvania to William Penn, and a compact between the general assemblies of the commonwealths of Virginia and Pennsylvania as to the extent of that grant. 4. The grant of Carolina, and actual
actual location of its northern boundary, by consent of both parties. 5. The treaty of Paris of 1763. 6. The confirmation of the charters of the neighbouring states by the convention of Virginia at the time of constituting their commonwealth. 7. The cession made by Virginia to Congress of all the lands to which they had title on the North side of the Ohio.

QUERY II.

A NOTICE of its rivers, rivulets, and how far they are navigable?

An inspection of a map of Virginia, will give a better idea of the geography of its rivers, than any description in writing. Their navigation may be imperfectly noted.

Roanoke, so far as it lies within this state, is nowhere navigable, but for canoes, or light bateaux; and, even for these, in such detached parcels as to have prevented the inhabitants from availing themselves of it at all.

James River, and its waters, afford navigation as follows.

The whole of Elizabeth River, the lowest of those which run into James River, is a harbour, and would contain upwards of 300 ships.
ships. The channel is from 150 to 200 fathom wide, and at common flood tide, affords 18 feet water to Norfolk. The Straford, a 60 gun ship, went there, lightening herself to cross the bar at Sowell's point. The Fier Rodrigue, pierced for 64 guns, and carrying 50, went there without lightening. Craney Island, at the mouth of this river, commands its channel tolerably well.

*Naunamond River* is navigable to Sleepy hole, for vessels of 250 tons; to Suffolk, for those of 100 tons; and to Milner's, for those of 25.

*Pagan Creek* affords 8 or 10 feet water to Smithfield, which admits vessels of 20 ton.

*Chickahominy* has at its mouth a bar, on which is only 12 feet water at common flood tide. Vessels passing that, may go 8 miles up the river; those of 10 feet draught may go four miles further, and those of six tons burthen, 20 miles further.

*Appamattox* may be navigated as far as Broadways, by any vessel which has crossed Harrison's bar in James river; it keeps 8 or 9 feet water a mile or two higher up to Fisher's bar, and 4 feet on that and upwards to Petersburg, where all navigation ceases.

*James River* itself affords harbour for vessels of any size in Hampton Roads, but not in safety through the whole winter; and there
there is navigable water for them as far as Mulberry island. A 40 gun ship goes to James town, and, lightening herself, may pass to Harrison’s bar, on which there is only 15 feet water. Vessels of 250 tons may go to Warwick; those of 125 go to Rocket’s, a mile below Richmond; from thence is about 7 feet water to Richmond; and about the center of the town, four feet and a half, where the navigation is interrupted by falls, which in a course of six miles, descend about 80 feet perpendicular; above these it is resumed in canoes and batteaux, and is prosecuted safely and advantageously to within 10 miles of the Blue ridge; and even through the Blue ridge a ton weight has been brought; and the expense would not be great, when compared with its object, to open a tolerable navigation up Jackson’s river and Carpenter’s creek, to within 25 miles of Howard’s creek of Green brier, both of which have then water enough to float vessels into the Great Kanahaway. In some future state of population, I think it possible, that its navigation may also be made to interlock with that of the Patowmac, and through that to communicate by a short portage with the Ohio. It is to be noted, that this river is called in the maps James River, only to its confluence with the Rivanna; thence to the Blue
Blue ridge it is called the Fluvanna; and thence to its source, Jackson's river. But in common speech, it is called James river to its source.

The Rivanna, a branch of James river, is navigable for canoes and bateaux to its interjection with the South West mountains, which is about 22 miles; and may easily be opened to navigation through those mountains to its fork above Charlottesville.

York River, at York town, affords the best harbour in the state for vessels of the largest size. The river there narrows to the width of a mile, and is contained within very high banks, close under which the vessels may ride. It holds 4 fathom water at high tide for 25 miles above York to the mouth of Peropotank, where the river is a mile and a half wide, and the channel only 75 fathom, and passing under a high bank. At the confluence of Pamunkey and Mattapony, it is reduced to 3 fathom depth, which continues up Pamunkey to Cumberland, where the width is 100 yards, and up Mattapony to within two miles of Frazer's ferry, where it becomes 2½ fathom deep, and holds that about five miles. Pamunkey is then capable of navigation for loaded flats to Brockman's bridge, 50 miles above Hanover town, and
and Mattapony to Downer's bridge, 70 miles above its mouth.

Piankatank, the little rivers making out of Mobjack bay and those of the Eastern shore, receive only very small vessels, and these can but enter them.

Rappahanock affords 4 fathom water to Hobb's hole, and 2 fathom from thence to Frederickburg.

Patomac is 7½ miles wide at the mouth; 4½ at Nomony bay; 3 at Aquia; 1½ at Hallooing point; 1¼ at Alexandria. Its soundings are, 7 fathom at the mouth; 5 at St. George's island; 4½ at Lower Machodic; 3 at Swan's point, and thence up to Alexandria; thence 10 feet water to the falls, which are 13 miles above Alexandria. These falls are 15 miles in length, and of very great descent, and the navigation above them for batteaux and canoes, is so much interrupted as to be little used. It is, however, used in a small degree up the Cohongoronta branch as far as Fort Cumberland, which was at the mouth of Will's creek, and is capable, at no great expense, of being rendered very practicable. The Shenandoah branch interlocks with James river about the Blue ridge, and may perhaps in future be opened.

B 4

The
The Mississippi will be one of the principal channels of future commerce for the country westward of the Alleghany. From the mouth of this river to where it receives the Ohio, is 1000 miles by water, but only 500 by land, passing through the Chickasaw country. From the mouth of the Ohio to that of the Missouri, is 230 miles by water, and 140 by land. From thence to the mouth of the Illinois river, is about 25 miles. The Mississippi, below the mouth of the Missouri, is always muddy, and abounding with sand bars, which frequently change their places. However, it carries 15 feet water to the mouth of the Ohio, to which place it is from one and a half to two miles wide, and thence to Kaskaskia from one mile to a mile and a quarter wide. Its current is so rapid, that it never can be stemmed by the force of the wind alone, acting on sails. Any vessel, however, navigated with oars, may come up at any time, and receive much aid from the wind. A batteau paffes from the mouth of Ohio to the mouth of Mississippi in three weeks, and is from two to three months getting up again. During its floods, which are periodical as those of the Nile, the largest vessels may pass down it, if their steerage can be ensured. These floods begin in April, and the river returns into its banks
banks early in August. The inundation extends further on the western than eastern side, covering the lands in some places for 50 miles from its banks. Above the mouth of the Misouri, it becomes much such a river as the Ohio, like it clear, and gentle in its current, not quite so wide, the period of its floods nearly the same, but not rising to so great a height. The streets of the village at Cohoes are not more than 10 feet above the ordinary level of the water, and yet were never overflowed. Its bed deepens every year. Cohoes, in the memory of many people now living, was insulated by every flood of the river. What was the Eastern channel has now become a lake, 9 miles in length and one in width, into which the river at this day never flows. This river yields turtle of a peculiar kind, perch, trout, gar, pike, mullets, herrings, carp, spatula fifth of 50 lb. weight, cat fifth of an hundred pounds weight, buffalo fish, and sturgeon. Alligators or crocodiles have been seen as high up as the Acanfas. It also abounds in herons, cranes, ducks, brant, geese, and swans. Its passage is commanded by a fort established by this state, five miles below the mouth of Ohio, and ten miles above the Carolina boundary.
The Missouri, since the treaty of Paris, the Illinois and Northern branches of the Ohio since the cession to Congress, are no longer within our limits. Yet having been so heretofore, and still opening to us channels of extensive communication with the western and north-western country, they shall be noted in their order.

The Missouri is, in fact, the principal river, contributing more to the common stream than does the Mississippi, even after its junction with the Illinois. It is remarkably cold, muddy and rapid. Its overflowings are considerable. They happen during the months of June and July. Their commencement being so much later than those of the Mississippi, would induce a belief that the sources of the Missouri are northward of those of the Mississippi, unless we suppose that the cold increases again with the ascent of the land from the Mississippi westwardly. That this ascent is great, is proved by the rapidity of the river. Six miles above the mouth it is brought within the compass of a quarter of a mile’s width: yet the Spanish Merchants at Pancoro, or St. Louis, say they go two thousand miles up it. It heads far westward of the Rio Norte, or North River. There is, in the villages of Kaskaskia, Cohoes and St. Vincennes, no inconsiderable quantity of
plate, said to have been plundered during the last war by the Indians from the churches and private houses of Santa Fé, on the North River, and brought to these villages for sale. From the mouth of Ohio to Santa Fé are forty days journey, or about 1000 miles. What is the shortest distance between the navigable waters of the Missouri, and those of the North River, or how far this is navigable above Santa Fé, I could never learn. From Santa Fé to its mouth in the Gulph of Mexico is about 1200 miles. The road from New Orleans to Mexico crosses this river at the post of Rio Norte, 800 miles below Santa Fé; and from this post to New Orleans is about 1200 miles; thus making 2000 miles between Santa Fé and New Orleans, passing down the North river, Red river, and Mississippi; whereas it is 2230 through the Missouri and Mississippi. From the same post of Rio Norte, passing near the mines of La Sierra and Laiguana, which are between the North river and the river Salina to Sartilla, is 375 miles; and from thence, passing the mines of Charcas, Zacatecas and Potosí, to the city of Mexico is 375 miles; in all, 1550 miles from Santa Fé to the city of Mexico. From New Orleans to the city of Mexico is about 1950 miles; the roads, after setting out from the Red river, near Natchitoches,
Natchitoches, keeping generally parallel with the coast, and about two hundred miles from it, till it enters the city of Mexico.

The Illinois is a fine river, clear, gentle, and without rapids; insomuch that it is navigable for bateaux to its source. From thence is a portage of two miles only to the Chickago, which affords a bateau navigation of 16 miles to its entrance into lake Michigan. The Illinois, about 10 miles above its mouth, is 300 yards wide.

The Kaskeaskia is 100 yards wide at its entrance into the Mississipi, and preserves that breadth to the Buffalo plains, 70 miles above. So far also it is navigable for loaded bateaux, and perhaps much further. It is not rapid.

The Ohio is the most beautiful river on earth. Its current gentle, waters clear, and bosom smooth and unbroken by rocks and rapids, a single instance only excepted.

It is $\frac{3}{4}$ of a mile wide at Fort Pitt:

500 yards at the mouth of the Great Kanaway:

1 mile and 25 poles at Louisville:

$\frac{3}{4}$ of a mile on the rapids, three or four miles below Louisville:

$\frac{1}{2}$ a mile where the low country begins, which is 20 miles above Green river:

1$\frac{1}{4}$ at the receipt of the Tanislee:

And
And a mile wide at the mouth.

Its length, as measured according to its

standards by Capt. Hutchings, is as follows:

From Fort Pitt

<table>
<thead>
<tr>
<th>Miles from Fort Pitt</th>
<th>Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log's town</td>
<td>18 1/2</td>
</tr>
<tr>
<td>Beaver creek</td>
<td>10 1/2</td>
</tr>
<tr>
<td>Little Beaver cr.</td>
<td>13 1/2</td>
</tr>
<tr>
<td>Elbow creek</td>
<td>11 1/2</td>
</tr>
<tr>
<td>Wo creeks</td>
<td>21 1/2</td>
</tr>
<tr>
<td>Long reach</td>
<td>53 1/2</td>
</tr>
<tr>
<td>3d Long reach</td>
<td>16 1/2</td>
</tr>
<tr>
<td>Muskingum</td>
<td>25 1/2</td>
</tr>
<tr>
<td>Ttle Kanhaway</td>
<td>12 1/2</td>
</tr>
<tr>
<td>Ohio River</td>
<td>16</td>
</tr>
<tr>
<td>Wabash</td>
<td>97 1/2</td>
</tr>
<tr>
<td>Big cave</td>
<td>42 1/2</td>
</tr>
<tr>
<td>Shawnee river</td>
<td>52 1/2</td>
</tr>
<tr>
<td>Moundot</td>
<td>43 1/2</td>
</tr>
<tr>
<td>Cherokee river</td>
<td>13</td>
</tr>
<tr>
<td>Massac</td>
<td>11</td>
</tr>
<tr>
<td>Mississipi</td>
<td>46</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>1183</td>
</tr>
</tbody>
</table>

In common winter and spring tides it affords 15 feet water to Louisville, 10 feet to Tarte's rapids, 40 miles above the mouth the great Kanhaway, and a sufficiency at times for light batteaux and canoes to Fort Pitt. The rapids are in latitude 38° 8'. The inundations of this river begin about the last of March, and subside in July. During these first rate man of war may be tried from Louisville to New Orleans, if
the sudden turns of the river and the strength of its current will admit a safe steamage. The rapids at Louisville descend about 30 feet in a length of a mile and a half. The bed of the river there is a solid rock, and is divided by an island into two branches, the southern of which is about 200 yards wide, and dry four months in the year. The bed of the northern branch is worn into channels by the constant course of the water, and attention of the pebble stones carried on with such force as to be passable for batteaux through the greater part of the year. Yet it is thought that the southern arm may be the most easily opened for constant navigation. The rise of the waters in these rapids does not exceed 5 or 12 feet. A part of this island is so high as to have been never overflowed, and command the settlement at Louisville, which is opposite to it. The fort, however, is situated at the head of the falls. The ground on the south side rises very gradually.

The Tanissee, Cherokee or Hogogege river is 600 yards wide at its mouth, 1/4 of a mile at the mouth of Hollston, and 200 yards at Chotee, which is 20 miles above Hollston and 300 miles above the mouth of the Tanissee. This river crosses the southern boundary of Virginia, 58 miles from the Mississippi. Its current is moderate. It is navigable for loaded boats of any burthen to the Muscles hous.
Muscle shoals, where the river passes through the Cumberland mountain. These shoals are 6 or 8 miles long, passable downwards for loaded canoes, but not upwards, unless there be a swell in the river. Above these the navigation for loaded canoes and batteaux continues to the Long island. This river has its inundations also. Above the Chickamogga towns is a whirlpool called the Sucking-pot, which takes in trunks of trees or boats, and throws them out again half a mile below. It is avoided by keeping very close to the bank, on the South side. There are but a few miles portage between a branch of this river and the navigable waters of the river Mobile, which runs into the gulph of Mexico.

Cumberland, or Shawanee river, intersects the boundary between Virginia and North Carolina. 67 miles from the Mississippi, and again 198 miles from the same river, a little above the entrance of Obey's river into the Cumberland. Its clear fork crosses the same boundary about 300 miles from the Mississippi. Cumberland is a very gentle stream, navigable for loaded batteaux 800 miles, without interruption; then intervene some rapids of 15 miles in length, after which it is again navigable 70 miles upwards, which brings you within 10 miles of
the Cumberland mountains. It is about 120 yards wide through its whole course, from
the head of its navigation to its mouth.

The Wabash is a very beautiful river, 400 yards wide at the mouth, and 300 at
St. Vincennes, which is a post 100 miles above the mouth, in a direct line. Within
this space there are two small rapids, which give very little obstruction to the navigation.
It is 400 yards wide at the mouth, and navigable 30 leagues upwards for canoes and
small boats. From the mouth of Maple river to that of Eel river is about 80 miles in a
direct line, the river continuing navigable, and from one to two hundred yards in
width. The Eel river is 150 yards wide, and affords at all times navigation for peria-
guas, to within 18 miles of the Miami of the lake. The Wabash, from the mouth of
Eel river to Little river, a distance of 50 miles direct, is interrupted with frequent ra-
pids and shoals, which obstruct the navigation, except in a swell. Little river affords
navigation during a swell to within 3 miles of the Miami, which thence affords a similar
navigation into lake Erie, 100 miles distant in a direct line. The Wabash overflows pe-
riodically in correspondence with the Ohio, and in some places two leagues from its
banks.
Green River is navigable for loaded batteaux at all times 50 miles upwards; but it is then interrupted by impassable rapids, above which the navigation again commences, and continues good 30 or 40 miles to the mouth of Barren river.

Kentucky river is 90 yards wide at the mouth, and also at Boonborough, 80 miles above. It affords a navigation for loaded batteaux 180 miles in a direct line, in the winter tides.

The Great Miami of the Ohio, is 200 yards wide at the mouth. At the Piccawee towns, 75 miles above, it is reduced to 30 yards; it is, nevertheless, navigable for loaded canoes 50 miles above these towns. The portage from its western branch into the Miami of Lake Erié, is 5 miles; that from its eastern branch into Sandusky river, is of 9 miles.

Salt river is at all times navigable for loaded batteaux 70 or 80 miles. It is 80 yards wide at its mouth, and keeps that width to its fork, 25 miles above.

The Little Miami of the Ohio, is 60 or 70 yards wide at its mouth, 60 miles to its source, and affords no navigation.

The Siota is 250 yards wide at its mouth, which is in latitude 38°. 22′. and at the Saltlick towns, 200 miles above the mouth,
it is yet 100 yards wide. To these towns it is navigable for loaded bateaux, and its eastern branch affords navigation almost to its source.

Great Sandy river is about sixty yards wide, and navigable sixty miles for loaded bateaux.

Guiandot is about the width of the river last mentioned, but is more rapid. It may be navigated by canoes sixty miles.

The Great Kanawaway is a river of considerable note for the fertility of its lands, and still more, as leading towards the head-waters of James rivers. Nevertheless, it is doubtful whether its great and numerous rapids will admit a navigation, but at an expence to which it will require ages to render its inhabitants equal. The great obstacles begin at what are called the great falls, 90 miles above the mouth, below which are only five or six rapids, and these passable, with some difficulty, even at low water. From the falls to the mouth of Greenbrier is 100 miles, and thence to the lead mines 120. It is 280 yards wide at its mouth. It is said that Hock-backing is 80 yards wide at its mouth, and yields navigation for loaded bateaux to the Press-place, 60 miles above its mouth. The Little Kanawaway is 150 yards wide at the mouth. It yields a navigation of 10 miles only. Perhaps its northern branch, called
called Junius's creek, which interlocks with the western of Monongahela, may one day admit a shorter passage from the latter into the Ohio.

The Muskingum is 280 yards wide at its mouth, and 200 yards at the lower Indian towns, 130 miles upwards. It is navigable for small bateaux to within one mile of a navigable part of Cayahoga river, which runs into lake Erie.

At Fort Pitt the river Ohio loses its name, branching into the Monongahela and Alleghaney.

The Monongahela is 400 yards wide at its mouth. From thence is 12 or 15 miles to the mouth of Yohoganey, where it is 300 yards wide. Thence to Redstone by water is 50 miles, by land 30. Then to the mouth of Cheat river by water 40 miles, by land 28, the width continuing at 400 yards, and the navigation good for boats. Thence the width is about 200 yards to the western fork, 50 miles higher, and the navigation frequently interrupted by rapids; which however with a swell of two or three feet become very passable for boats. It then admits light boats, except in dry seasons, 65 miles further to the head of Tygart's valley, presenting only some small rapids and falls of one or two feet perpendicular, and lessening in its width to 20 yards.
yards. The Western fork is navigable in the winter 10 or 15 miles towards the northern of the Little Kanaway, and will admit a good waggon road to it. The Tohoganey is the principal branch of this river. It passes through the Laurel mountain, about 30 miles from its mouth; is 10 far from 300 to 150 yards wide, and the navigation much obstructed in dry weather by rapids and shoals. In its passage through the mountain it makes very great falls, admitting no navigation for ten miles to the Turkey foot. Thence to the great crossing, about 20 miles, it is again navigable, except in dry seasons, and at this place is 200 yards wide. The sources of this river are divided from those of the Patowmac by the Alleghaney mountain. From the falls, where it intersects the Laurel mountain, to Fort Cumberland, the head of the navigation on the Parowmac, is 40 miles of very mountainous road. Wills’s creek, at the mouth of which was Fort Cumberland, is 30 or 40 yards wide, but affords no navigation as yet. Cheat river, another considerable branch of the Monongahela, is 200 yards wide at its mouth, and 100 yards at the Dunkard’s settlement, 50 miles higher. It is navigable for boats, except in dry seasons. The boundary between Virginia and Pennsylvania.
Pennsylvania crosses it about three or four miles above its mouth.

The Alleghany river, with a slight swell, affords navigation for light batteaux to Venango, at the mouth of French creek, where it is 200 yards wide; and it is practised even to Le Bœuf, from whence there is a portage of 15 miles to Presque Isle on Lake Erie.

The country watered by the Mississippi and its eastern branches, constitutes five-eighths of the United States, two of which five-eighths are occupied by the Ohio and its waters; the residuary streams which run into the Gulph of Mexico, the Atlantic, and the St. Laurence water, the remaining three-eighths.

Before we quit the subject of the western waters, we will take a view of their principal connections with the Atlantic. These are three; the Hudson's river, the Patowmac, and the Mississippi itself. Down the last will pass all heavy commodities. But the navigation through the Gulph of Mexico is so dangerous, and that up the Mississippi so difficult and tedious, that it is thought probable that European merchandize will not return through that channel. It is most likely that flour, timber, and other heavy articles will be floated on rafts, which will themselves be an article for sale as well as their loading, the

C 3 navigators
navigators returning by land or in light batteaux. There will therefore be a competition between the Hudson and Patowmac rivers for the residue of the commerce of all the country westward of Lake Erie, on the waters of the lakes, of the Ohio, and upper parts of the Mississippi. To go to New-York, that part of the trade which comes from the lakes or their waters must first be brought into Lake Erie. Between Lake Superior and its waters, and Huron are the rapids of St. Mary, which will permit boats to pass, but not larger vessels. Lakes Huron and Michigan afford communication with Lake Erie by vessels of 8 feet draught. That part of the trade which comes from the waters of the Mississippi must pass from them through some portage into the waters of the lakes. The portage from the Illinois river into a water of Michigan is of one mile only. From the Wabash, Miami, Muskingum, or Alleghany, are portages into the waters of Lake Erie, of from one to fifteen miles. When the commodities are brought into, and have passed through Lake Erie, there is between that and Ontario an interruption by the falls of Niagara, where the portage is of 8 miles; and between Ontario and the Hudson's river are portages at the falls of Onondago, a little above Oswego, of a quarter of a mile; from
Wood creek to the Mohawks river two miles; at the little falls of the Mohawks river half a mile, and from Schenectady to Albany 16 miles. Besides the increase of expence occasioned by frequent change of carriage, there is an increased risk of pillage produced by committing merchandize to a greater number of hands successively. The Patowmac offers itself under the following circumstances. For the trade of the lakes and their waters westward of Lake Erie, when it shall have entered that lake, it must coast along its southern shore, on account of the number and excellence of its harbours, the northern, though short, having few harbours, and these unsafe. Having reached Cayahoga, to proceed on to New-York it will have 825 miles and five portages; whereas it is but 425 miles to Alexandria, its emporium on the Patowmac; if it turns into the Cayahoga, and passes through that, Bigbeaver, Ohio, Yohoganey, (or Mongalia and Cheat) and Patowmac, and there are but two portages; the first of which between Cayahoga and Beaver may be removed by uniting the sources of these waters, which are lakes in the neighbourhood of each other, and in a champaign country; the other from the waters of Ohio to Patowmac will be from 15 to 40 miles, according to the trouble which shall be taken to approach the two navigations.
navigations. For the trade of the Ohio, or that which shall come into it from its own waters or the Mississippi, it is nearer through the Patowmac to Alexandria than to New-York by 580 miles, and it is interrupted by one portage only. There is another circumstance of difference too. The lakes themselves never freeze, but the communications between them freeze, and the Hudson’s river is itself shut up by the ice three months in the year; whereas the channel to the Chesapeake leads directly into a warmer climate. The southern parts of it very rarely freeze at all, and whenever the northern do, it is so near the sources of the rivers, that the frequent floods to which they are there liable break up the ice immediately, so that vessels may pass through the whole winter, subject only to accidental and short delays. Add to all this, that in case of a war with our neighbours the Anglo-Americans or the Indians, the route to New-York becomes a frontier through almost its whole length, and all commerce through it ceases from that moment.—But the channel to New-York is already known to practice; whereas the upper waters of the Ohio and the Patowmac, and the great falls of the latter, are yet to be cleared of their fixed obstructions (1).

**QUERY**
QUERY III.

A NOTICE of the best sea-ports of the state, and how big are the vessels they can receive?

Having no ports but our rivers and creeks, this Query has been answered under the preceding one.

QUERY IV.

A NOTICE of its Mountains?

For the particular geography of our mountains I must refer to Fry and Jefferson's map of Virginia; and to Evans's analysis of his map of America for a more philosophical view of them than is to be found in any other work. It is worthy notice, that our mountains are not solitary and scattered confusedly over the face of the country; but that they commence at about 150 miles from the sea-coast, are disposed in ridges one behind another, running nearly parallel with the sea-coast, though rather approaching it as they advance north-eastwardly. To the south-west, as the tract of country between the sea-coast and the Mississippi becomes narrower, the mountains converge into a single ridge,
ridge, which, as it approaches the Gulph of Mexico, subsides into plain country, and gives rise to some of the waters of that Gulph, and particularly to a river called the Apala-chicola, probably from the Apalachies, an Indian nation formerly residing on it. Hence the mountains giving rise to that river, and seen from its various parts, were called the Apalachian mountains, being in fact the end or termination only of the great ridges passing through the continent. European geographers however extended the name northwardly as far as the mountains extended; some giving it, after their separation into different ridges, to the Blue ridge, others to the North mountain, others to the Alleghany, others to the Laurel ridge, as may be seen in their different maps. But the fact I believe is, that none of these ridges were ever known by that name to the inhabitants, either native or emigrant, but as they saw them so called in European maps. In the same direction generally are the veins of lime-stone, coal and other minerals hitherto discovered; and so range the falls of our great rivers. But the courses of the great rivers are at right angles with these. James and Patowmac penetrate through all the ridges of mountains eastward of the Alleghany; that is broken by no watercourse.
It is in fact the spine of the country between the Atlantic on one side, and the Mississippi and St. Laurence on the other. The passage of the Patowmac through the Blue ridge is perhaps one of the most stupendous scenes in nature. You stand on a very high point of land. On your right comes up the Shenandoah, having ranged along the foot of the mountain an hundred miles to seek a vent. On your left approaches the Patowmac, in quest of a passage also. In the moment of their junction they rush together against the mountain, rend it asunder, and pass off to the sea. The first glance of this scene hurried our senses into the opinion, that this earth has been created in time, that the mountains were formed first, that the rivers began to flow afterwards, that in this place particularly they have been dammed up by the Blue ridge of mountains, and have formed an ocean which filled the whole valley; that continuing to rise they have at length broken over at this spot, and have torn the mountain down from its summit to its base. The piles of rock on each hand, but particularly on the Shenandoah, the evident marks of their disruption and avulsion from their beds by the most powerful agents of nature, corroborate the impression. But the distant finishing which nature has given to the picture
ture is of a very different character. It is a true contrast to the fore-ground. It is as placid and delightful, as that is wild and tremendous. For the mountain being cloven asunder, she presents to your eye, through the cleft, a small catch of smooth blue horizon, at an infinite distance in the plain country, inviting you, as it were, from the riot and tumult roaring around, to pass through the breach and participate of the calm below. Here the eye ultimately composes itself; and that way too the road happens actually to lead. You cross the Potomac above the junction, pass along its side through the base of the mountain for three miles, its terrible precipices hanging in fragments over you, and within about 20 miles reach Frederic town and the fine country round that. This scene is worth a voyage across the Atlantic. Yet here, as in the neighbourhood of the natural bridge, are people who have passed their lives within half a dozen miles, and have never been to survey these monuments of a war between rivers and mountains, which must have shaken the earth itself to its center. *(a) The height of our mountains has not yet been estimated with any degree of exactness. The Alleghany being the great ridge which divides the waters of the Atlantic from those of Herodotus L. 7. c. 129, after stating that Thrasybule was a plain country surrounded by high mountains from which there is no outlet but the stream through which the Borus flows, which according to ancient tradition it had once been an entire lake, supposes that fissure to have been made by an earthquake rending the mountain asunder.
To what is here said on the height of mountains, subsequent information has enabled me to correct some
additions I conceived.

Gen. Williams, nephew of P. Franklin, on a journey from
Richmond by the Warm Springs to the Alleghany, has estimated
by barometer the height of some four ridges of moun-
tains above the level of water as follows:

<table>
<thead>
<tr>
<th>Mountain</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eastern base of the Blue ridge adjacent to Rockfish gap</td>
<td>1822</td>
</tr>
<tr>
<td>Summit of the mountains adjacent to that gap</td>
<td>1600</td>
</tr>
<tr>
<td>Valley constituting the Eastern base of the Warm Spring mountain</td>
<td>943</td>
</tr>
<tr>
<td>Summit of the Warm Spring mountain</td>
<td>2247</td>
</tr>
<tr>
<td>Valley between the Warm Spring mountain, by geod. back</td>
<td>949</td>
</tr>
<tr>
<td>Summit of the Alleghany 6 mi. S.W. of the Red Springs</td>
<td>2760</td>
</tr>
</tbody>
</table>

In Nov. 1815, I with a Ramden's theodolite of 3½ I radius circle,
on the ground of Scammell, measured 4 miles from
on the summit of the two peaks of Otter, I measured their heights
and found that of the sharp or S. peak 2946½
and that of the flat or N. peak 3103½

as we may say with confidence that the base of the Peaks is at least
as high above the level of water at Richmond as that of the Blue ridge at
Rockfish gap (being 40 miles farther westward) which, and their highest summit of course 3203½ above that level, shows that the summit of the highest peak is 30½ ft. higher
than that of the Alleghany as measured by Gen. Williams.

The highest of the Blue mountains in N. H. by a barometrical
estimate made by Capt. Partridge was found to be 4085 ft. from it
and the highest of the Catskill mountains 1719 ft. in N. Y. 3105 ft.

Two drawings with an excellent pocket sextant gave a mean
of 37° 30' 50" for the lat. of the sharp peak of Otter.

B. H. Humboldt states that in lat. 37° (which is nearly our
median parallel) the height of perpetual snow is nowhere known
to be as 1200; contour = 7671 ft. above the level of the sea.

Un correctitude ratio nearly to the highest peak of Otter
Thou man of truth rending the mountain asunder.
of the Mississipi, its summit is doubtless more elevated above the ocean than that of any other mountain. But its relative height, compared with the base on which it stands, is not so great as that of some others, the country rising behind the successive ridges like the steps of stairs. The mountains of the Blue ridge, and of these the Peaks of Otter, are thought to be of a greater height, measured from their base, than any others in our country, and perhaps in North America. From data, which may found a tolerable conjecture, we suppose the highest peak to be about 4000 feet perpendicular, which is not a fifth part of the height of the mountains of South America, nor one third of the height which would be necessary in our latitude to preserve ice in the open air unmelted through the year. The ridge of mountains next beyond the Blue ridge, called by us the North mountain, is of the greatest extent; for which reason they were named by the Indians the Endless mountains.

A substance supposed to be Pumice, found floating on the Mississipi, has induced a conjecture, that there is a volcano on some of its waters: and as these are mostly known to their sources, except the Missourie, our expectations of verifying the conjecture would of course be led to the mountains which di-
vide the waters of the Mexican Gulph from those of the South Sea; but no volcano having ever yet been known at such a distance from the sea, we must rather suppose that this floating substance has been erroneously deemed Pumice.

**QUERY V.**

**ITS Cataracts and Caverns?**

The only remarkable Cataract in this country, is that of the Falling Spring in Augusta. It is a water of James river, where it is called Jackson's river, rising in the warm spring mountains about twenty miles South West of the warm spring, and flowing into that valley. About three quarters of a mile from its source, it falls over a rock 200 feet into the valley below. The sheet of water is broken in its breadth by the rock in two or three places, but not at all in its height. Between the sheet and rock, at the bottom, you may walk across dry. This Cataract will bear no comparison with that of Niagara, as to the quantity of water composing it; the sheet being only 12 or 15 feet wide above, and somewhat more spread below; but it is half as high again, the latter being only 15 feet.
feet, according to the mensuration made by order of M. Vaudreuil, Governor of Canada, and 130 according to a more recent account.

In the lime-stone country, there are many caverns of very considerable extent. The most noted is called Madison's Cave, and is on the North side of the Blue ridge, near the intersection of the Rockingham and Augusta line with the South fork of the southern river of Shenandoah. It is in a hill of about 200 feet perpendicular height, the ascent of which, on one side, is so steep, that you may pitch a biscuit from its summit into the river which washes its base. The entrance of the cave is, in this side, about two thirds of the way up. It extends into the earth about 300 feet, branching into subordinate caverns, sometimes ascending a little, but more generally descending, and at length terminates, in two different places, at bafons of water of unknown extent, and which I should judge to be nearly on a level with the water of the river; however, I do not think they are formed by reftuent water from that, because they are never turbid; because they do not rise and fall in correspondence with that in times of flood, or of drought; and because the water is always cool. It is, probably one of the many reservoirs with which the interior parts of the earth are supposed to abound.
An Eye-draught of Madison's cave, on a scale of 50 feet to the inch. The arrows show where it descends or ascends.
abound, and which yield supplies to the fountains of water, distinguished from others only by its being accessible. The vault of this cave is of solid lime-stone, from 20 to 40 or 50 feet high, through which water is continually percolating. This, trickling down the sides of the cave, has incrusted them over in the form of elegant drapery; and dripping from the top of the vault generates on that, and on the base below, stalactites of a conical form, some of which have met and formed massive columns.

Another of these caves is near the North mountain, in the county of Frederick, on the lands of Mr. Zane. The entrance into this is on the top of an extensive ridge. You descend 30 or 40 feet, as into a well, from whence the cave then extends, nearly horizontally, 400 feet into the earth, preserving a breadth of from 20 to 50 feet, and a height of from 5 to 12 feet. After entering this cave a few feet, the mercury, which in the open air was at 50°, rose to 57° of Fahrenheit's thermometer, answering to 11° of Reaumur's, and it continued at that to the remotest parts of the cave. The uniform temperature of the cellars of the observatory of Paris, which are 90 feet deep, and of all subterranean cavities of any depth, where no chymical agents may be supposed
to produce a factitious heat, has been found to be 10° of Reamur, equal to 54° of Farenheit. The temperature of the cave above-mentioned so nearly corresponds with this, that the difference may be ascribed to a difference of instruments.

At the Panther gap, in the ridge which divides the waters of the Cow and the Calf pasture, is what is called the Blowing cave. It is in the side of a hill, is of about 100 feet diameter, and emits constantly a current of air of such force, as to keep the weeds prostrate to the distance of twenty yards before it. This current is strongest in dry frosty weather, and in long spells of rain weakest. Regular inspirations and expirations of air, by caverns and fissures, have been probably enough accounted for, by supposing them combined with intermittent fountains; as they must of course inhale air while their reservoirs are emptying themselves, and again emit it while they are filling. But a constant issue of air, only varying in its force as the weather is drier or damper, will require a new hypothesis. There is another blowing cave in the Cumberland mountain, about a mile from where it crosses the Carolina line. All we know of this is, that it is not constant, and that a fountain of water issues from it.
The Natural bridge, the most sublime of Nature's works, though not comprehended under the present head, must not be pretermitted. It is on the ascent of a hill, which seems to have been cloven through its length by some great convulsion. The fissure, just at the bridge, is, by some admeasurements, 270 feet deep, by others only 205. It is about feet wide at the bottom, and 90 feet at top; this of course determines the length of the bridge, and its height from the water. The depth in the middle, is about 60 feet, the ends, and the thickness of the summit of the arch, about 40 feet, which thickness is constituted by the rock, over which it creeps, over to the parapet and peep over it. Looking down from this height about a minute gave me a violent headache. This painful sensation is relieved by a short, but pleasing view of the Blue ridge, along the fissure downwards, and up-wards by that of the Short hills, which, with the Pergatory mountain is a divergence from the North ridge; and, descending them to the valley below, the sensation becomes delightful in the extreme. It is impossible for the emotions arising from the sublime to be felt beyond what they are here; so beautiful an arch, so elevated, so light, and springing, as it were, up to heaven, the capture of the spectator is really indescribable! The fissure continues deep, narrow, and, following the margin of the stream upwards about a mile, you arrive at a limestone cavern, less remarkable however for height and extent than those before described. Its entrance into the hill is but a few feet above the bed of the stream. This bridge, looking down from this minute, gave me a violent view from the top be pain-

D 2 ful
to produce a factitious heat, has been found to be 10° of Reamur, equal to 54 1/4° of Fahrenheit. The temperature of the cave above-mentioned so nearly corresponds with this, that the difference may be ascribed to a difference of instruments.

Bowing cave.

At the Panther gap, in the ridge which divides the waters of the Cow and the pasture, is what is called the Blowing. It is in the side of a hill, is 50 feet diameter, and emits constant air of such force, as to prostrate to the distance before it. This current

Note. This description was written after a lapse of several years from the time of my visit to the bridge, and under an error of recollection which requires apology, for it is from the bridge itself that the mountains are visible both ways, and not from the bottom of the fissure, as my impression then was. The statement therefore in the former edition needs the correction here given to it. Aug. 16, 1817.

There is another blowing mountain mountain, about it crosses the Carolina line; of this is, that it is not con-
The Natural bridge, the most sublime of Nature's works, though not comprehended under the present head, must not be pretermitted. It is on the ascent of a hill, which seems to have been cloven through its length by some great convulsion. The fissure, just at the bridge, is, by some admeasurements, 270 feet deep, by others only 205. It is about 45 feet wide at the bottom, and 90 feet at the top; this of course determines the length of the bridge, and its height from the water. Its breadth in the middle, is about 60 feet, but more at the ends, and the thickness of the mass at the summit of the arch, about 40 feet. A part of this thickness is constituted by a coat of earth, which gives growth to many large trees. The residue, with the hill on both sides, is one solid rock of limestone. The arch approaches the Semi-elliptical form; but the larger axis of the ellipse, which would be the cord of the arch, is many times longer than the tranverse. Though the sides of this bridge are provided in some parts with a parapet of fixed rocks, yet few men have resolution to walk to them and look over into the abyss. You involuntarily fall on your hands and feet, creep to the parapet and peep over it. Looking down from this height about a minute, gave me a violent head ach. If the view from the top be painfu...
ful and intolerable, that from below is delightful in an equal extreme. It is impossible for the emotions arising from the sublime, to be felt beyond what they are here: so beautiful an arch, so elevated, so light, and springing as it were up to heaven, the rapture of the spectator is really indescribable! The fissure, continuing narrow, deep, and freight for a considerable distance above and below the bridge, opens a short but very pleasing view of the North mountain on one side, and Blue ridge on the other, at the distance each of them of about five miles. This bridge is in the county of Rock bridge, to which it has given name, and affords a public and commodious passage over a valley, which cannot be crossed elsewhere for a considerable distance. The stream passing under it is called Cedar creek. It is a water of James river, and sufficient in the driest seasons to turn a grist-mill, though its fountain is not more than two miles above.

QUERY

* Don Ulloa mentions a break, similar to this, in the province of Angaraez, in South America. It is from 16 to 22 feet wide, 111 feet deep, and of 1.3 miles continuance, English measures. Its breadth at top is not sensibly greater than at bottom. But the following fact is remarkable, and will furnish some light for conjecturing the probable origin of our natural bridge. * Ella casa, 6 cauce está cortada en pena viva con...
QUERY VI.

A NOTICE of the mines and other subterraneous riches; its trees, plants, fruits, &c.

I knew

con tanta preciación, que las desigualdades del un lado entrantes, corresponden á las del otro lado salientes, como si aquella altura se hubiese abierto expresamente, con sus buegas y tortuosidades, para darle tránsito á los aguas por entre los dos murallones que la forman, siendo tal su igualdad, que si llegasen á juntarse se engendrarían uno con otro sin dejar hueco. Not. Amer. II. §. 10. Don Ulloa inclines to the opinion, that this channel has been effected by the wearing of the water which runs through it, rather than that the mountain should have been broken open by any convulsion of nature. But if it had been worn by the running of water, would not the rocks which form the sides, have been worn plane? or if, meeting in some parts with veins of harder stone, the water had left prominences on the one side, would not the same cause have sometimes, or perhaps generally, occasioned prominences on the other side also? Yet Don Ulloa tells us, that on the other side there are always corresponding cavities, and that these tally with the prominences so perfectly, that, were the two sides to come together, they would fit in all their indentures, without leaving any void. I think that this does not resemble the effect of running water, but looks rather as if the two sides had parted asunder. The sides of the break, over which is the Natural bridge of Virginia, consisting of a veiny rock which yields to time, the correspondence between the salient and re-entering inequalities, if it existed
Gold.

I knew a single instance of gold found in this state. It was interspersed in small specks through a lump of ore, of about four pounds weight, which yielded seventeen pennyweight of gold, of extraordinary ductility. This ore was found on the North side of Rappahannock, about four miles below the falls. I never heard of any other indication of gold in its neighbourhood.

Lead.

On the Great Kanaway, opposite to the mouth of Cripple creek, and about twenty-five miles from our southern boundary, in the county of Montgomery, are mines of lead. The metal is mixed, sometimes with earth, and sometimes with rock, which requires the force of gunpowder to open it; and is accompanied with a portion of silver, too small to be worth separation under any process hitherto attempted there. The proportion yielded is from 50 to 80 lb. of pure metal from 100 lb. of washed ore. The most common is that of 60 to the 100 lb. The veins are at sometimes most flattering; at others they disappear suddenly and totally. They enter the side of the hill, and proceed existing at all, has now disappeared. This break has the advantage of the one described by Don Ulloa in its finest circumstance; no portion in that instance having held together, during the separation of the other parts, so as to form a bridge over the Abyss.
horizontally. Two of them are wrought at present by the public, the best of which is 100 yards under the hill. These would employ about 50 labourers to advantage. We have not, however, more than 30 generally, and these cultivate their own corn. They have produced 60 tons of lead in the year; but the general quantity is from 20 to 25 tons. The present furnace is a mile from the ore-bank, and on the opposite side of the river. The ore is first waggoned to the river, a quarter of a mile, then laden on board of canoes and carried across the river, which is there about 200 yards wide, and then again taken into waggons and carried to the furnace. This mode was originally adopted, that they might avail themselves of a good situation on a creek, for a pounding mill; but it would be easy to have the furnace and pounding mill on the same side of the river, which would yield water, without any dam, by a canal of about half a mile in length. From the furnace the lead is transported 130 miles along a good road, leading through the peaks of Otter to Lynch's ferry, or Winston's, on James river, from whence it is carried by water about the same distance to Westham. This land carriage may be greatly shortened, by delivering the lead on James river, above the blue ridge, from whence
whence a ton weight has been brought on two canoes. The Great Kanhaway has considerable falls in the neighbourhood of the mines. About seven miles below are three falls, of three or four feet perpendicular each, and three miles above is a rapid of three miles continuance, which has been compared in its descent to the great fall of James river. Yet it is the opinion, that they may be laid open for useful navigation, so as to reduce very much the portage between the Kanhaway and James river.

A valuable lead mine is said to have been lately discovered in Cumberland, below the mouth of Red river. The greatest, however, known in the western country, are on the Mississippi, extending from the mouth of Rock river 150 miles upwards. These are not wrought, the lead used in that country being from the banks on the Spanish side of the Mississippi, opposite to Kaskaskia.

Copper. A mine of copper was once opened in the county of Amherst, on the North side of James river, and another in the opposite country, on the South side. However, either from bad management or the poverty of the veins, they were discontinued. We are told of a rich mine of native copper on the Oua-bache, below the upper Wiaw.
The mines of iron worked at present are iron. Callaway’s, Ros’s, and Ballendine’s, on the South side of James river; Old’s on the North side, in Albemarle; Miller’s in Augusta, and Zane’s in Frederic. These two last are in the valley between the Blue ridge and North mountain. Callaway’s, Ros’s, Millar’s, and Zane’s, make about 150 tons of bar iron each, in the year. Ros’s makes also about 1600 tons of pig iron annually; Ballendine’s 1000; Callaway’s, Millar’s, and Zane’s, about 600 each. Besides these, a forge of Mr. Hunter’s, at Fredericksburgh, makes about 300 tons a year of bar iron, from pigs imported from Maryland; and Taylor’s forge on Neapsco of Patowmac, works in the same way, but to what extent I am not informed. The indications of iron in other places are numerous, and dispersed through all the middle country. The toughness of the cast iron of Ros’s and Zane’s furnaces is very remarkable. Pots and other utensils, cast thinner than usual, of this iron, may be safely thrown into, or out of the wagons in which they are transported. Salt-panns made of the same, and no longer wanted for that purpose, cannot be broken up, in order to be melted again, unless previously drilled in many parts.

In the western country, we are told of iron mines between the Muskingum and Ohio;
of others on Kentucky, between the Cumberland and Barren rivers, between Cumberland and Tanniflee, on Reedy creek, near the Long island, and on Chefnut creek, a branch of the Great Kanhaway, near where it crosses the Carolina line. What are called the iron banks, on the Mississipi, are believed, by a good judge, to have no iron in them. In general, from what is hitherto known of that country, it seems to want iron.

Black lead. Considerable quantities of black lead are taken occasionally for use from Winterham, in the county of Amelia. I am not able, however, to give a particular state of the mine. There is no work established at it, those who want, going and procuring it for themselves.

Pit coal. The country on James river, from 15 to 20 miles above Richmond, and for several miles northward and southward, is replete with mineral coal of a very excellent quality. Being in the hands of many proprietors, pits have been opened, and before the interruption of our commerce were worked to an extent equal to the demand.

In the western country coal is known to be in so many places, as to have induced an opinion, that the whole tract between the Laurel mountain, Mississipi, and Ohio, yields coal. It is also known in many places on
the North side of the Ohio. The coal at Pittsburg is of very superior quality. A bed of it at that place has been a-fire since the year 1765. Another coal-hill on the Pike-run of Monongahela has been a-fire ten years; yet it has burnt away about twenty yards only.

I have known one instance of an Emerald found in this country. Amethyts have been frequent, and chrystals common; yet not in such numbers any of them as to be worth seeking.

There is very good marble, and in very Marble.
great abundance, on James river, at the mouth of Rockfish. The samples I have seen, were some of them of a white as pure as one might expect to find on the surface of the earth: but most of them were variegated with red, blue, and purple. None of it has been ever worked. It forms a very large precipice, which hangs over a navigable part of the river. It is said there is marble at Kentucky.

But one vein of lime-stone is known below the Blue ridge. Its first appearance, in our country, is in Prince William, two miles below the Pignut ridge of mountains; thence it passes on nearly parallel with that, and crosses the Rivanna about five miles below it, where it is called the South-west ridge. It then crosses Hardware, above the mouth of
of Hudson's creek, James river at the mouth of Rockfish, at the marble quarry before spoken of, probably runs up that river to where it appears again at Rolfs's iron-works, and so passes off south-westwardly by Flat creek of Otter river. It is never more than one hundred yards wide. From the Blue ridge westwardly the whole country seems to be founded on a rock of lime-stone, besides infinite quantities on the surface, both loose and fixed. This is cut into beds, which range, as the mountains and sea-coast do, from south-west to north-east, the lamina of each bed declining from the horizon towards a parallelism with the axis of the earth. Being struck with this observation, I made, with a quadrant, a great number of trials on the angles of their declination, and found them to vary from 22° to 60°, but averaging all my trials, the result was within one-third of a degree of the elevation of the pole or latitude of the place, and much the greatest part of them taken separately were little different from that: by which it appears, that these lamina are, in the main, parallel with the axis of the earth. In some instances, indeed, I found them perpendicular, and even reclining the other way: but these were extremely rare, and always attended with signs of convulsion, or other circumstances of singularity,
regularity, which admitted a possibility of removal from their original position. These trials were made between Madison's cave and the Patowmac. We hear of lime-flone on the Missipipi and Ohio, and in all the mountainous country between the eastern and western waters, not on the mountains themselves, but occupying the valleys between them.

Near the eastern foot of the North mountain are immense bodies of *Schist*, containing impressions of shells in a variety of forms. I have received petrified shells of very different kinds from the first sources of the Kentucky, which bear no resemblance to any I have ever seen on the tide-waters. It is said that shells are found in the Andes, in South-America, fifteen thousand feet above the level of the ocean. This is considered by many, both of the learned and unlearned, as a proof of an universal deluge. To the many considerations opposing this opinion, the following may be added:  The atmosphere, and all its contents, whether of water, air, or other matters, gravitate to the earth, that is to say, they have weight. Experience tells us, that the weight of all these together never exceeds that of a column of mercury of 31 inches height, which is equal to one of rain-water of 35 feet high. If the whole contents of the neighborhood of the veins of Limestone, Slate, and of Limestone that is between the North mountain and White river connected with the following observations of Bouguer, who

*On whose authority has it been said? Bouguer de Montesquieu respecting the Andes, speaking of Peru, says: "On ne peut distinguer aucun vestige des grandes inondations qui ont laissé tant de marques dans toutes les autres régions; j'ai fait tout mon possible pour y découvrir quelque chose, mais tous mes inutilement, apparemment que les montagnes des Andes sont trop hautes!" Bouguer, J. J. et a. Mansuy, 1781, suivi d. Clavigero, 1782. See also E. M. J. E. 1784, 189, 188. Bouguer, 1800.*

*The neighborhood of the veins of"
of the atmosphere then were water, instead of what they are, it would cover the globe but 35 feet deep; but as these waters, as they fell, would run into the seas, the superficial measure of which is to that of the dry parts of the globe as two to one, the seas would be raised only 52½ feet above their present level, and of course would overflow the lands to that height only. In Virginia this would be a very small proportion even of the champaign country, the banks of our tide-waters being frequently, if not generally, of a greater height. Deluges beyond this extent then, as for instance, to the North mountain or to Kentucky, seem out of the laws of nature. But within it they may have taken place to a greater or less degree, in proportion to the combination of natural causes which may be supposed to have produced them. History renders probable some instances of a partial deluge in the country lying round the Mediterranean sea. It has been often supposed, and is not unlikely, that that sea was once a lake. While such, let us admit an extraordinary collection of the waters of the atmosphere from the other parts of the globe to have been discharged over that and the countries whose waters run into it. Or without supposing it a lake, admit

* 2. Buffon Epoches, 96.
such an extraordinary collection of the waters of the atmosphere, and an influx of waters from the Atlantic ocean, forced by long continued Western winds. That lake, or that sea, may thus have been raised as to overflow the low lands adjacent to it, as those of Egypt and Armenia, which, according to a tradition of the Egyptians and Hebrews, were overflowed about 2300 years before the Christian æra; those of Attica, said to have been overflowed in the time of Ogyges, about 500 years later; and those of Thessaly, in the time of Deucalion, still 300 years posterior. But such deluges as these will not account for the shells found in the higher lands. A second opinion has been entertained, which is, that, in times anterior to the records either of history or tradition, the bed of the ocean, the principal residence of the shelled tribe, has, by some great convulsion of nature, been heaved to the heights at which we now find shells and other remains of marine animals. The favourers of this opinion do well to suppose the great events on which it rests to have taken place beyond all the æras of history; for within these, certainly none such are to be found: and we may venture to say further, that no fact has taken place, either in our own days, or in the thousands of years recorded in history, which proves the existence of
of any natural agents, within or without the bowels of the earth, of force sufficient to heave, to the height of 15,000 feet, such masses as the Andes. The difference between the power necessary to produce such an effect, and that which sufficed together the different parts of Calabria in our days, is so immense, that, from the existence of the latter we are not authorized to infer that of the former.

M. de Voltaire has suggested a third solution of this difficulty (Quell. encycl. Coquilles). He cites an instance in Touraine, where, in the space of 80 years, a particular spot of earth had been twice metamorphosed into soft stone, which had become hard when employed in building. In this stone shells of various kinds were produced, discoverable at first only with the microscope, but afterwards growing with the stone. From this fact, I suppose, he would have us infer, that besides the usual process for generating shells by the elaboration of earth and water in animal vessels, nature may have provided an equivalent operation, by passing the same materials through the pores of calcareous earths and stones: as we see calcareous drop-stones generating every day by the percolation of water through lime-stone, and new marble forming in the quarries from which the
the old has been taken out; and it might be asked, whether it is more difficult for nature to shoot the calcareous juice into the form of a shell, than other juices into the forms of chrysalids, plants, animals, according to the construction of the vessels through which they pass? There is a wonder somewhere. Is it greatest on this branch of the dilemma; on that which supposes the existence of a power, of which we have no evidence in any other case; or on the first, which requires us to believe the creation of a body of water, and its subsequent annihilation? The establishment of the instance, cited by M. de Voltaire, of the growth of shells unattached to animal bodies, would have been that of his theory. But he has not established it. He has not even left it on ground so respectable as to have rendered it an object of inquiry to the literati of his own country. Abandoning this fact, therefore, the three hypotheses are equally unsatisfactory; and we must be contented to acknowledge, that this great phenomenon is as yet unsolved. Ignorance is preferable to error; and he is less remote from the truth who believes nothing, than he who believes what is wrong.

There is great abundance (more especially stone, when you approach the mountains) of stone, white, blue, brown, &c. fit for the chisel, good
good mill-stone, such also as stands the fire, and slate-stone. We are told of flint, fit for gun-flints, on the Meherin in Brunswick, on the Mississippi between the mouth of Ohio and Kaskaskia, and on others of the western waters. Slaglass or mica is in several places; loadstone also, and an Asbestos of a ligneous texture, is sometimes to be met with.

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

In the limestone country are many caves, the earthy floors of which are impregnated with nitre. On Rich creek, a branch of the Great Kanaway, about 60 miles below the lead mines, is a very large one, about 20 yards wide, and entering a hill a quarter of a mile. The vault is of rock, from 9 to 15 or 20 feet above the floor. A Mr. Lynch, who gives me this account, undertook to extract the nitre. Besides a coat of the salt which had formed on the vault and floor, he found the earth highly impregnated to the depth of seven feet in some places, and generally
rally of three, every bushel yielding on an
average three pounds of nitre. Mr. Lynch
having made about 1000 lb. of the salt from
it, consigned it to some others, who have
since made 10,000 lb. They have done this
by pursuing the cave into the hill, never try-
ing a second time the earth they have once
exhausted, to see how far or soon it receives
another impregnation. At least fifty of these
caves are worked on the Greenbrier. There
are many of them known on Cumberland
river.

The country westward of the Alleghaney salt:
abounds with springs of common salt. The
most remarkable we have heard of are at
Bullet's lick, the Big bones, the Blue licks,
and on the North fork of Holston. The area
of Bullet's lick is of many acres. Digging
the earth to the depth of three feet, the wa-
ter begins to boil up, and the deeper you go,
and the drier the weather, the stronger is the
brine. A thousand gallons of water yield
from a bushel to a bushel and a half of salt,
which is about 80 lb. of water to one lb. of
salt; but of sea-water 25 lb. yield one lb. of
salt. So that sea-water is more than three
times as strong as that of these springs. A
salt spring has been lately discovered at the
Turkey foot on Yohogany, by which river
it is overflowed, except at very low water.
Its merit is not yet known. Duning's lick is also as yet untried, but it is supposed to be the best on this side the Ohio. The salt springs on the margin of the Onondago lake are said to give a saline taste to the waters of the lake.

There are several Medicinal springs, some of which are indubitably efficacious, while others seem to owe their reputation as much to fancy, and change of air and regimen, as to their real virtues. None of them having undergone a chemical analysis in skilful hands, nor been so far the subject of observations as to have produced a reduction into classes of the disorders which they relieve, it is in my power to give little more than an enumeration of them.

The most efficacious of these are two springs in Augusta, near the first sources of James river, where it is called Jackson's river. They rise near the foot of the ridge of mountains, generally called the Warm spring mountain, but in the maps Jackson's mountains. The one is distinguished by the name of the Warm spring, and the other of the Hot spring. The Warm spring issues with a very bold stream, sufficient to work a grist-mill, and to keep the waters of its basin, which is 30 feet in diameter, at the vital warmth, viz. 96°, of Farenheit's thermometer.
ter with which these waters is allied is very volatile; its smell indicates it to be sulphurous, as also does the circumstance of its turning silver black. They relieve rheumatisms. Other complaints also of very different natures have been removed or lessened by them. It rains here four or five days in every week.

The Hot spring is about six miles from the Warm, is much smaller, and has been so hot as to have boiled an egg. Some believe its degree of heat to be lessened. It raises the mercury in Farenheit's thermometer to 112 degrees, which is fever heat. It sometimes relieves where the Warm spring fails. A fountain of common water, issuing within a few inches of its margin, gives it a singular appearance. Comparing the temperature of these with that of the Hot springs of Kam-schatka, of which Krachininikow gives an account, the difference is very great, the latter raising the mercury to 200°, which is within 12° of boiling water. These springs are very much resorted to in spite of a total want of accommodation for the sick. Their waters are strongest in the hottest months, which occasions their being visited in July and August principally.

The Sweet springs are in the county of Botetourt, at the eastern foot of the Allegheny,
ney, about 42 miles from the Warm springs. They are still less known. Having been found to relieve cases in which the others had been ineffectually tried, it is probable their composition is different. They are different also in their temperature, being as cold as common water: which is not mentioned, however, as a proof of a distinct impregnation. This is among the first sources of James river.

On Patowmac river, in Berkeley county, above the North mountain, are Medicinal springs, much more frequented than those of Augusta. Their powers, however, are less, the waters weakly mineralized, and scarcely warm. They are more visited, because situated in a fertile, plentiful, and populous country, better provided with accommodations, always safe from the Indians, and nearest to the more populous states.

In Louisa county, on the head waters of the South Anna branch of York river, are springs of some medicinal virtue. They are not much used however. There is a weak chalybeate at Richmond; and many others in various parts of the country, which are of too little worth, or too little note, to be enumerated after those before-mentioned.

We are told of a Sulphur spring on Howard’s creek of Greenbriar, and another at Boonborough on Kentuckey.
In the low grounds of the Great Kanha-way, 7 miles above the mouth of Elk river, and 67 above that of the Kanhaway itself, is a hole in the earth of the capacity of 30 or 40 gallons, from which issues constantly a bituminous vapour in so strong a current, as to give to the sand about its orifice the motion which it has in a boiling spring. On presenting a lighted candle or torch within 18 inches of the hole, it flames up in a column of 18 inches diameter, and four or five feet height, which sometimes burns out within 20 minutes, and at other times has been known to continue three days, and then has been left still burning. The flame is unsteady, of the density of that of burning spirits, and smells like burning pit coal. Water sometimes collects in the basin, which is remarkably cold, and is kept in ebullition by the vapour issuing through it. If the vapour be fired in that state, the water soon becomes so warm that the hand cannot bear it, and evaporates wholly in a short time. This, with the circumjacent lands, are the property of his Excellency General Washington and of General Lewis.

There is a similar one on Sandy river, the flame of which is a column of about 12 inches diameter, and 3 feet high. General Clarke, who informs me of it, kindled the vapour,
vapour, stayed about an hour, and left it burning.

The mention of uncommon springs leads me to that of Syphon fountains. There is one of these near the intersection of the Lord Fairfax's boundary with the North mountain, not far from Brock's gap, on the stream of which is a grist-mill, which grinds two bushels of grain at every flood of the spring. Another, near the Cow-pasture river, a mile and a half below its confluence with the Bull-pasture river, and 16 or 17 miles from the Hot springs, which intermits once in every twelve hours. One also near the mouth of the North Holston. Since Pleasant's name, Aug. 18, 1792, that this disappeared Dec. 25, 1798, on which day a spring which had not been seen since 1796.
Sketch out those which would principally attract notice, as being 1. Medicinal, 2. Esculent, 3. Ornamental, or 4. Useful for fabrication; adding the Linnaean to the popular names, as the latter might not convey precise information to a foreigner. I shall confine myself too to native plants.

4. Lobelia of several species.

(3.) James-town weed. Datura Stramonium.

Seneca rattlesnake-root. Polygala Senega.
Valerian. Valeriana Locusta radiata.
Gentiana.
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spring broke out about 150 feet higher up the hill.

The Syphon fountains have been explained by supposing the duct which leads from the reservoir to the surface of the earth to be in the form of a cylinder, &c. where it is evident that till the water rises in the reservoir, &c. it cannot flow through the duct, if it is known that when once it begins to flow it will dry up the corner of the reservoir to the surface of the Syphon, possibly the ground of the water reservoir of the earth by them during the storm abovementioned I may have opened a more direct duct as from a jet of horizontal or declivous, which issued higher up the hill than the one fed by the Syphon.

In that case it becomes a common geyser. In spring, the water in which the duct is always supposed to be cranier than the supply of the reservoir, &c. whenever the duct is closed or diminished by any new accident, the syphon may begin to play again, and both feeders be kept in action from the same reservoir.

fruits, &c. is probably not desired. I will

sketch
Sketch out those which would principally attract notice, as being 1. Medicinal, 2. Esculent, 3. Ornamental, or 4. Useful for fabrication; adding the Linnæan to the popular names, as the latter might not convey precise information to a foreigner. I shall confine myself too to native plants.

   Arfinart. Polygonum Sagittatum.
   Clivers, or goose-grass. Galium spurium.
   Lobelia of several species.
   Palma Christi. Ricinus.
   (3.) James-town weed. Datura Stramonium.
   Mallow. Malva rotundifolia.
   Syrian mallow. Hibiscus moschentos.
   Hibiscus virginicus.
   Indian mallow. Sida rhombifolia.
   Sida abutilon.
   Virginia Marshmallow. Napæa hermaphrodita.
   Napæa dioica.
   Indian phylic. Spiræa trifoliata.
   Euphorbia Ipecacuanhæ.
   Pleurisy root. Asclepias decumbens.
   Virginia snake-root. Aristolochia serpentina.
   Seneca rattlesnake-root. Polygala Senega.
   Valerian. Valeriana locusta radiata.
   Gentiana,
Gentiana, Saponaria, Villosa & Centaurium.
Ginseng. *Panax quinquefolium.*
Angelica. *Angelica sylvestris.*
Cassava. *Jatropha urens.*

Jerusalem artichoke. *Helianthus tuberosus.*
Long potatoes. *Convolvulus batatas.*

Panic. *Panicum of many species.*
Indian millet. *Holcus laxus.*
Holcus *s trifus.*

Wild oat. *Zizania aquatica.*
Wild pea. *Dolichos of Clayton.*
Lupine. *Lupinus perennis.*

Wild hop. *Humulus lupulus.*
Wild cherry. *Prunus Virginiana.*
Cherokee plumb. *Prunus sylvestris fructu majori.*

Wild plumb. *Prunus sylvestris fructu minori.*

Red mulberry. *Morus rubra.*
Persimmon. *Diospyros Virginiana.*
Sugar maple. *Acer saccharinum.*

Scaly bark hickory. *Juglans alba cortice squamoso.* *Clayton.*

Common hickory. *Juglans alba, fructu minore rancido.* *Clayton.*

Paccan,
Pacca, or Illinois nut. Not described by Linnaeus, Millar, or Clayton. Were I to venture to describe this, speaking of the fruit from memory, and of the leaf from plants of two years growth, I should specify it as the Juglans alba, foliis lanceolatis, acuminatis, ferratis, tomentosis, fructu minore, ovato, compresso, vix insculpto, dulci, putamine, tenerimo. It grows on the Illinois, Wabash, Ohio, and Missisipi. It is spoken of by Don Ulloa under the name of Pacanos, in his Noticias Americanas. Entret. 6.

Black walnut. Juglans nigra.
White walnut. Juglans alba.
Chesnut. Fagus castanea.
Chinquapin. Fagus pumila.
Hazlenut. Corylus avellana.
Grapes. Vitis. Various kinds, though only three described by Clayton.
Scarlet Strawberries. Fragaria Virginiana of Millar.
Whortleberries. Vaccinium uliginosum?
Wild gooseberries. Ribes grossularia.
Cranberries. Vaccinium oxyccocos.
Black raspberries. Rubus occidentalis.
Blackberries. Rubus fruticofus.
Dewberries. Rubus caesius.
Cloud-berries. Rubus chamæmorùs.

3. Plane-
Poplar. Liriodendron tulipifera.
   Populus heterophylla.
Black poplar. Populus nigra.
Aspen. Populus tremula.
Linden, or lime. Tilia Americana.
Red flowering maple. Acer rubrum.
Horse-chestnut, or Buck's-eye. Aesculus pavia.
Catalpa. Bignonia catalpa.
Umbrella. Magnolia tripetala.
Swamp laurel. Magnolia glauca.
Cucumber-tree. Magnolia acuminata.
Portugal bay. Laurus indica.
Red bay. Laurus borbonia.
Dwarf-rose bay. Rhododendron maximum.
Laurel of the western country. Qu. species?
Wild pimento. Laurus benzoin.
Sassafras. Laurus sassafras.
Locust. Robinia pseudo-acacia.
Honey-locust. Gleditsia. 1, 6.
Dogwood. Cornus florida.
Fringe or snow-drop tree. Chionanthus Virginica.
Barberry. Berberis vulgaris.
Redbud, or Judas-tree. Cercis Canadensis.
Holly. Ilex aquifolium.
Cockspur hawthorn. Crataegus coccinea.
Spindle-tree. Euonymus Europæus.

Evergreen
Evergreen spindle-tree. Euonymus Americanus.

Itea Virginica.

Elder. Sambucus nigra.

Papaw. Annona triloba.

Candleberry. Myrica cerifera.


Kalmia latifolia with us.

Ivy. Hedera quinquefolia.

Trumpet honeyfuckle. Lonicera sempervirens.

Upright honeyfuckle. Azalea nudiflora.

Yellow jasmine. Bignonia sempervirens.

Calycanthus floridus.

American aloe. Agave Virginica.

Sumach. Rhus. Qu. species?

Poke. Phytoleca decandra.

Long moss. Tillandsia Usneoides.

4. Reed. Arundo phragmitis.

Virginia hemp. Acnida cannabina.

Flax. Linum Virginianum.

Black, or pitch-pine. Pinus taeda.

White pine. Pinus strobus.

Yellow pine. Pinus Virginica.

Spruce pine. Pinus folis singularibus.

Clayton.

Hemlock spruce fir. Pinus Canadenensis.

Arbor vitae. Thuya occidentalis.

Juniper.
Juniper. Juniperus virginica (called cedar with us).

cypress. Cupressus distichia.
white cedar. Cupressus Thyoides.
black oak. Quercus nigra.
white oak. Quercus alba.
red oak. Quercus rubra.
willow oak. Quercus phellos.
chestnut oak. Quercus prinus.
black jack oak. Quercus aquatica.
clayton. Query?
ground oak. Quercus pumila. Clayton.
black birch. Betula nigra.
white birch. Betula alba.
beach. Fagus sylvatica.

Afh. Fraxinus Americana.
fraxinus Novae Angliae. Millar.
elm. Ulmus Americana.
willow. Salix. Query species?
sweet gum. Liquidambar styraciflua.

The following were found in Virginia when first visited by the English; but it is not said whether of spontaneous growth, or by cultivation only. Most probably they were natives of more southern climates, and handed along the continent from one nation to another of the savages.

Tobacco. Nicotiana.


---

Round potato. Solanum tuberosum.
Pumpkins. Cucurbita pepo.
Comings. Cucurbita maxima.
Squashes. Cucurbita pepo.

There is an infinite number of plants, for an entire sight of which the best agriculturist might be said to have entire knowledge, as much as only a sect of the bed.

Beets the place of sugar beets. They produce when the winds blow northward.

Rice and corn are commodious crops. The folk are rich, with proper farming.

We cultivate also the tobacco, tea, pumpkins, and gourds.

Figs are Lucumon, and should be reserved for the my and orchard.

Flor clover; gers. gers.

---

Ramusius supposes this to be the grain described by Dioscorides 2 in his book of the Travels of Sindarius, in the following passage: 'quae quae in natura sanguis subitae.' A very fine grain, subitae, in the scientific names and descriptions of plants, and we may say that the grain came first from the West Indies into Turkey, and from there it is spread over the world. Zimmermann says it is now grown in the pays chauds of America. Domesti quies, it is grown on the beds. For the sake of comfort, the grain is transplanted to the beds.
Round potatoes. Solanum tuberosum.
Pumpkins. Cucurbita pepo.
Cymplings. Cucurbita verrucosa.
Squashes. Cucurbita melopepo.

There is an infinitude of other plants and flowers, for an enumeration and scientific description of which I must refer to the Flora Virginica of our great botanist Dr. Clayton, published by Gronovius at Leyden, in 1762. This accurate observer was a native and resident of this state, passed a long life in exploring and describing its plants, and is supposed to have enlarged the botanical catalogue as much as almost any man who has lived.

Besides these plants, which are native, our farms produce wheat, rye, barley, oats, buckwheat, broom corn, and Indian corn. The climate suits rice well enough wherever the lands do. Tobacco, hemp, flax, and cotton, are staple commodities. Indigo yields two cuttings. The silk-worm is a native, and the mulberry, proper for its food, grows kindly.

We cultivate also potatoes, both the long and the round, turnips, carrots, parsnips, pumpkins, and ground nuts (Arachis). Our grafts are Lucerne, St. Foin, Burnet, Timothys, ray and orchard grasses; red, white, and yellow clover; green swerd, blue grass, and crab grasses.

The...
The gardens yield musk melons, water melons, tomatas, okra, pomegranates, figs, and the esculent plants of Europe.

The orchards produce apples, pears, cherries, quinces, peaches, nectarines, apricots, almonds, and plumbs.

Animals. Our quadrupeds have been mostly described by Linnaeus and Mons. de Buffon. Of these the Mammoth, or big buffalo, as called by the Indians, must certainly have been the largest. Their tradition is, that he was carnivorous, and still exists in the northern parts of America. A delegation of warriors from the Delaware tribe having visited the governor of Virginia, during the present revolution, on matters of business, after these had been discussed and settled in council, the governor asked them some questions relative to their country, and, among others, what they knew or had heard of the animal whose bones were found at the Saltlicks, on the Ohio. Their chief speaker immediately put himself into an attitude of oratory, and with a pomp suited to what he conceived the elevation of his subject, informed him that it was a tradition handed down from their fathers, "That in antient times a herd of these tremendous animals came to the Big-bone licks, and began an universal destruction of the bear, deer, elks, buffaloes, and other animals, which had been common to the country before the first comer had ever set foot in it."
which had been created for the use of the Indians; that the Great Man above, looking down and seeing this, was so enraged that he seized his lightning, descended on the earth, seated himself on a neighbouring mountain, on a rock, of which his seat and the print of his feet are still to be seen, and hurled his bolts among them till the whole were slaughtered, except the big bull, who presenting his forehead to the shafts, shook them off as they fell; but missing one at length, it wounded him in the side; whereon, springing round, he bounded over the Ohio, over the Wabash, the Illinois, and finally over the great lakes, where he is living at this day. It is well known that on the Ohio, and in many parts of America further north, tusks, grinders, and skeletons of unparalleled magnitude, are found in great numbers, some lying on the surface of the earth, and some a little below it. A Mr. Stanley, taken prisoner by the Indians near the mouth of the Tanissee, relates, that, after being transferred through several tribes, from one to another, he was at length carried over the mountains west of the Missouri to a river which runs westwardly; that these bones abounded there; and that the natives described to him the animal to which they belonged as still existing in the northern
northern parts of their country; from which description he judged it to be an elephant. Bones of the same kind have been lately found, some feet below the surface of the earth, in salines opened on the North Holston, a branch of the Tanisseé, about the latitude of $36^{1/2}$° North. From the accounts published in Europe, I suppose it to be decided, that these are of the same kind with those found in Siberia. * Instances are mentioned of like animal remains found in the more southern climates of both hemispheres; but they are either so loosely mentioned as to leave a doubt of the fact, so inaccurately described as not to authorize the classing them with the great northern bones, or so rare as to found a suspicion that they have been carried thither as curiosities from more northern regions. So that on the whole there seem to be no certain vestiges of the existence of this animal further south than the salines last mentioned. It is remarkable that the tusks and skeletons have been ascribed by the naturalists of Europe to the elephant, while the grinders have been given to the hippopotamus, or river-horse.* Yet it is acknowledged, that the tusks and skeletons are much larger than those of the elephant, and the grinders many times greater than those of the hippopotamus, and essentially different in form. Wherever these grinders are found, there also we find

*Clavigero says "Non mi sorvivano che appo qualche nazione americana ci sia memoria o degli elefanti, o degli oppopotamo, o d'altri qua...
...non so che fenora, trantei scavamenti fatti nella Nuova Spagna..."

[22. Buffon 232, 2 Epigrams 232]

[7. Epigrams 232, Buffon pro-nounces it is not the sand, or either of the elephant or hippopotamus, but a species la plus grande de tous les animaux fossiles, qui est perdri.]

*The skeleton of the elephant, as Mr. Smith has been so kind as to fix the teeth of the elephant, as Mr. Smith has been so kind as to fix the...
[ 67 ]

... from which it is evident that the tusks and skeleton are of the same kind as the hippopotamus, but no skeleton of the hippopotamus nor grinders of the elephant, as has been said. It will not be said that the hippopotamus and elephant came always to the same spot, the former to deposit his grinders, and the latter his tusks and skeleton. For what became of the parts not deposited there? We must agree with the former that these remains belong to each other, as we have mentioned, that they are of one and the same animal, the more so because this was not a hippopotamus, because the hippopotamus had no tusks nor such a frame, and because the grinders differ in their size as well as in the number and form of their points. That it was not an elephant, I think ascertained by proofs equally conclusive.

I will not avail myself of the authority of the celebrated *anatomist, who, from an examination of the form and structure of the tusks, has declared they were essentially different from those of the elephant; because another +anatomist, equally celebrated, has declared, on a like examination, that they are precisely the same. Between two such authorities I will suppose this circumstance equivocal. But, 1. The skeleton of the mammoth (for to the incognitum has been called) bespeaks an animal of five or six times the cubic volume of the elephant, as Mons. de Buffon has admitted. 2. The grinders are five times as large.

* Hunter.  † D'Aubenton.
large, are square, and the grinding surface studded with four or five rows of blunt points; whereas those of the elephant are broad and thin, and their grinding surface flat. I have never heard an instance, and suppose there has been none, of the grinder of an elephant being found in America. 4. From the known temperature and constitution of the elephant he could never have existed in those regions where the remains of the mammoth have been found. The elephant is a native only of the torrid zone and its vicinities; if, with the assistance of warm apartments and warm clothing, he has been preserved in life in the temperate climates of Europe, it has only been for a small portion of what would have been his natural period, and no instance of his multiplication in them has ever been known. But no bones of the mammoth, as have before observed, have been ever found further south than the salines of the Hotten and they have been found as far north as the Arctic circle. Thos., therefore, who are of opinion that the elephant and mammoth are the same, must believe, 1. That the elephant known to us can exist and multiply in the frozen zone; or, 2. That an internal fire once have warmed those regions, and since abandoned them, of which, however, the globe exhibits no unequivocal indications; or 3. That
3. That the obliquity of the ecliptic, when these elephants lived, was so great as to include within the tropics all those regions in which the bones are found; the tropics being as is before observed, the natural limits of habitation for the elephant. But if it be added that this obliquity has really decreased:

adopt the highest rate of decrease,

M. de Buffon considers the existence of elephant bones in northern regions, where the animal itself is no longer found, as one of the leading facts which support his theory that the earth was once in a liquid state, rendered to by the action of fire, and that as it cooled, the animals of warm temper

unvolved that the process of cooling began at the poles, that and proceeded gradually towards the torrid zone, that with this progress the animals of warm temperature retired to

vent to the equator, and that in the present state of that pro-

gress there does not remain warmth. The globe remains

sufficiently warm for the elephant for instance, only in the tro-

pical regions, to which therefore they have retired, as their last asylum and where they must become extinct when the degree of warmth shall be further reduced below that which adapted to their constitution. Has it happen

tioned that no elephants exist at present in the tropical re-

gions of America, to which those of the Ohio must have

retired according to this theory.
large, are square, and the grinding surface
flabeled with four or five rows of blunt points,
whereas those of the elephant are broad and
thin, and their grinding surface flat. I
have never heard an instance, and so
there has been none, of the grinder
phant being found in America.
3. That the obliquity of the ecliptic, when these elephants lived, was so great as to include within the tropics all those regions in which the bones are found; the tropics being, as is before observed, the natural limits of habituation for the elephant. But if it be admitted that this obliquity has really decreased, and we adopt the highest rate of decrease yet pretended, that is, of one minute in a century, to transfer the northern tropic to the Arctic circle, would carry the existence of these supposed elephants 250,000 years back; a period far beyond our conception of the duration of animal bones left exposed to the open air, as these are in many instances. Besides, though these regions would then be supposed within the tropics, yet their winters would have been too severe for the feasibility of the elephant. They would have had too but one day and one night in the year, a circumstance to which we have no reason to suppose the nature of the elephant fitted. However, it has been demonstrated, that, if a variation of obliquity in the ecliptic takes place at all, it is vibratory, and never exceeds the limits of 9 degrees, which is not sufficient to bring these bones within the tropics. One of these hypotheses, or some other equally voluntary and inadmissible to cautious philosophy, must be adopted to sup-
port the opinion that these are the bones of the elephant. For my own part, I find it easier to believe that an animal may have existed, resembling the elephant in his tusks, and general anatomy, while his nature was in other respects extremely different. From the 30th degree of South latitude to the 30th of North, are nearly the limits which nature has fixed for the existence and multiplication of the elephant known to us. Proceeding thence northwardly to 36½ degrees, we enter those assigned to the mammoth. The further we advance North, the more their vestiges multiply as far as the earth has been explored in that direction; and it is as probable as otherwise, that this progression continues to the pole itself, if land extends so far. The center of the Frozen zone then may be the Achmé of their vigour, as that of the Torrid is of the elephant. Thus nature seems to have drawn a belt of separation between these two tremendous animals, whose breadth indeed is not precisely known, though at present we may suppose it about 6½ degrees of latitude; to have assigned to the elephant the regions South of these confines, and those North to the mammoth, founding the constitution of the one in her extreme of heat, and that of the other in the extreme of cold. When the Creator has therefore separated their
their nature as far as the extent of the scale of animal life allowed to this planet would permit, it seems perverse to declare it the same, from a partial resemblance of their tusks and bones. But to whatever animal we ascribe these remains, it is certain such a one has existed in America, and that it has been the largest of all terrestrial beings. It should have sufficed to have rescued the earth it inhabited, and the atmosphere it breathed, from the imputation of impotence in the conception and nourishment of animal life on a large scale: to have stifled, in its birth, the opinion of a writer, the most learned, too of all others in the science of animal history, that in the new world, 'La nature vivante, c'est beaucoup moins agissante, beaucoup moins forte:' that nature is less active, less energetic on one side of the globe than she is on the other. As if both sides were not warmed by the same genial sun; as if a soil of the same chemical composition, was less capable of elaboration into animal nutriment; as if the fruits and grains from that soil and sun, yielded a less rich chyle, gave less extension to the solids and fluids of the body, or produced sooner in the cartilages, membranes, and fibres, that rigidity which restrains all further extension, and terminates animal growth. The truth is, that a Pigmy

F 4

and
and a Patagonian, a Mouse and a Mammoth, derive their dimensions from the same nutritive juices. The difference of increment depends on circumstances unsearchable to beings with our capacities. Every race of animals seems to have received from their Maker certain laws of extension at the time of their formation. Their elaborative organs were formed to produce this, while proper obstacles were opposed to its further progress. Below these limits they cannot fall, nor rise above them. What intermediate station they shall take may depend on soil, on climate, on food, on a careful choice of breeders. But all the manna of heaven would never raise the Mouse to the bulk of the Mammoth.

The opinion advanced by the Count de Buffon, is 1. That the animals common both to the old and new world, are smaller in the latter. 2. That those peculiar to the new, are on a smaller scale. 3. That those which have been domesticated in both, have degenerated in America; and 4. That on the whole it exhibits fewer species. And the reason he thinks is, that the heats of America are less; that more waters are spread over its surface by nature, and fewer of these drained off by the hand of man. In other words, that heat is friendly, and moisture adverse.

"La terre est demeurée froide, imprégnant a produire les principes actifs, a développé les formes des plus grands quadrupèdes auxquels il faut, pour croître et se multiplier, un milieu chaud, toute l'activité que le soleil peut de manne à la terre aménouiret. xvii. 156. "L'anne des hommes et la grandeur des animaux dépend de la salubrité et de la chaleur de l'eau. 160."
adverse to the production and development of large quadrupeds. I will not meet this hypothesis on its first doubtful ground, whether the climate of America be comparatively more humid? Because we are not furnished with observations sufficient to decide this question. And though, till it be decided, we are as free to deny, as others are to affirm the fact, yet for a moment let it be supposed. The hypothesis, after this supposition, proceeds to another; that moisture is unfriendly to animal growth. The truth of this is inscrutable to us by reasonings a priori. Nature has hidden from us her modus agendi. Our only appeal on such questions is to experience; and I think that experience is against the supposition. It is by the assistance of heat and moisture that vegetables are elaborated from the elements of earth, air, water, and fire. We accordingly see the more humid climates produce the greater quantity of vegetables. Vegetables are mediately or immediately the food of every animal; and in proportion to the quantity of food, we see animals not only multiplied in their numbers, but improved in their bulk, as far as the laws of their nature will admit. Of this opinion is the Count de Buffon himself, in another part of his work:

"En général il paraît que les pays un peu froids conviennent mieux à nos bœufs que..."
Les pays chauds, et qu’ils font d’autant plus gros et plus grands que le climat est plus bume et plus abondans en paturages. Les boeufs de Danemarck, de la Podolie, de l’Ukraine et de la Tartarie qu’habitent les Calmouques sont les plus grands de tous: 

Here then a race of animals, and one of the largest too, has been increased in its dimensions by cold and moisture, in direct opposition to the hypothesis, which supposes that these two circumstances diminish animal bulk, and that it is their contraries heat and dryness which enlarge it. But when we appeal to experience, we are not to rest satisfied with a single fact. Let us therefore try our question on more general ground. Let us take two portions of the earth, Europe and America for instance, sufficiently extensive to give operation to general causes; let us consider the circumstances peculiar to each, and observe their effect on animal nature. America, running through the torrid as well as temperate zone, has more heat, collectively taken, than Europe. But Europe, according to our hypothesis, is the dryest. They are equally adapted then to animal productions; each being endowed with one of those causes which befriended animal growth, and with one which opposes it. If it be thought unequal to compare Europe with
with America, which is so much larger, I answer, not more so than to compare America with the whole world. Besides, the purpose of the comparison is to try an hypothesis, which makes the size of animals depend on the heat and moisture of climate. If therefore we take a region, so extensive as to comprehend a sensible distinction of climate, and so extensive too as that local accidents, or the intercourse of animals on its borders, may not materially affect the size of those in its interior parts, we shall comply with those conditions which the hypothesis may reasonably demand. The objection would be the weaker in the present case, because any intercourse of animals which may take place on the confines of Europe and Asia, is to the advantage of the former, Asia producing certainly larger animals than Europe. Let us then take a comparative view of the Quadrupeds of Europe and America, presenting them to the eye in three different tables, in one of which shall be enumerated those found in both countries; in a second those found in one only; in a third those which have been domesticated in both. To facilitate the comparison, let those of each table be arranged in gradation according to their sizes, from the greatest to the smallest, so far as their sizes can be conjectured. The weights
weights of the large animals shall be expressed in the English avoirdupois pound and its decimals: those of the smaller in the ounce and its decimals. Those which are marked thus *, are actual weights of particular subjects, deemed among the largest of their species. Those marked thus †, are furnished by judicious persons, well acquainted with the species, and saying, from conjecture only, what the largest individual they had seen would probably have weighed. The other weights are taken from Messrs. Buffon and D’Aubenton, and are of such subjects as came casually to their hands for dissection. This circumstance must be remembered where their weights and mine stand opposed: the latter being stated, not to produce a conclusion in favour of the American species, but to justify a suspension of opinion until we are better informed, and a suspicion in the mean time that there is no uniform difference in favour of either; which is all I pretend.
A comparative View of the Quadrupeds of Europe and of America.

I. Aboriginals of both.

<table>
<thead>
<tr>
<th></th>
<th>Europe</th>
<th>America</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mammoth</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buffalo, Bison</td>
<td></td>
<td>*1800</td>
</tr>
<tr>
<td>White bear, Ours blanc</td>
<td></td>
<td>*410</td>
</tr>
<tr>
<td>Caribou, Renne</td>
<td>153.7</td>
<td></td>
</tr>
<tr>
<td>Bear, Ours</td>
<td></td>
<td>*273</td>
</tr>
<tr>
<td>Elk. Elan. Orignal, palmated</td>
<td>288.8</td>
<td></td>
</tr>
<tr>
<td>Red deer, Cerf</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fallow deer, Daim</td>
<td>167.8</td>
<td></td>
</tr>
<tr>
<td>Wolf, Loup</td>
<td>69.8</td>
<td></td>
</tr>
<tr>
<td>Roe, Chevreuil</td>
<td>56.7</td>
<td></td>
</tr>
<tr>
<td>Glutton, Glouton, Carcajou</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wild cat, Chat fauvage</td>
<td></td>
<td>†30</td>
</tr>
<tr>
<td>Lynx, Loup cervier</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Beaver, Cañtor</td>
<td>18.5</td>
<td>*45</td>
</tr>
<tr>
<td>Badger, Blaireau</td>
<td>13.6</td>
<td></td>
</tr>
<tr>
<td>Red Fox, Renard</td>
<td>13.5</td>
<td></td>
</tr>
<tr>
<td>Grey Fox, Isatis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Otter, Loutre</td>
<td>8.9</td>
<td>†12</td>
</tr>
<tr>
<td>Monax, Marmotte</td>
<td>6.5</td>
<td></td>
</tr>
<tr>
<td>Vison, Fouine</td>
<td>2.8</td>
<td></td>
</tr>
<tr>
<td>Hedgehog, Herisson</td>
<td>2.2</td>
<td></td>
</tr>
<tr>
<td>Martin, Marte</td>
<td>1.9</td>
<td>†6</td>
</tr>
<tr>
<td>Water rat, Rat d’eau</td>
<td>7.5</td>
<td></td>
</tr>
<tr>
<td>Wézel, Belette</td>
<td>2.2</td>
<td>oz.</td>
</tr>
<tr>
<td>Flying squirrel, Polatouche</td>
<td>2.2</td>
<td>†4</td>
</tr>
<tr>
<td>Shrew mouse, Musaraigne</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

II. Abor-
II. *Aboriginals of one only.*

<table>
<thead>
<tr>
<th><strong>EUROPE.</strong></th>
<th><strong>AMERICA.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sanglier.</td>
<td>Tapir</td>
</tr>
<tr>
<td>Mouslon.</td>
<td>Elk, round horned</td>
</tr>
<tr>
<td>Bouquetin.</td>
<td>Puma</td>
</tr>
<tr>
<td>Lieve.</td>
<td>Jaguar</td>
</tr>
<tr>
<td>Lapin.</td>
<td>Cabiai</td>
</tr>
<tr>
<td>Putois.</td>
<td>Tamanoir</td>
</tr>
<tr>
<td>Genette.</td>
<td>Tamandua</td>
</tr>
<tr>
<td>Deisman.</td>
<td>Cougar of N. Amer.</td>
</tr>
<tr>
<td>Ecureuil.</td>
<td>Cougar of S. Amer.</td>
</tr>
<tr>
<td>Hermine.</td>
<td>Ocelot</td>
</tr>
<tr>
<td>Rat.</td>
<td>Pecari</td>
</tr>
<tr>
<td>Loirs.</td>
<td>Jaguaret</td>
</tr>
<tr>
<td>Lerot.</td>
<td>Alco</td>
</tr>
<tr>
<td>Taupe.</td>
<td>Lama</td>
</tr>
<tr>
<td>Hamter.</td>
<td>Paco</td>
</tr>
<tr>
<td>Ziefel.</td>
<td>Paca</td>
</tr>
<tr>
<td>Leming.</td>
<td>Serval</td>
</tr>
<tr>
<td>Souris.</td>
<td>Sloth. Unau</td>
</tr>
</tbody>
</table>

II. Table

- There exists in the Western parts of Pennsylvania, an animal which seems to be nearer the hare than our whabece, the meat is black. An individual weighed 29 lbs., avoid, while the whabece is an animal of white meat, it weighs about 29 lbs. The former is furred, as white as is the case with most animals in countries abounding with snow.
## II. Table continued.

<table>
<thead>
<tr>
<th><strong>EUROPE.</strong></th>
<th><strong>AMERICA.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tapeti</td>
<td>1b.</td>
</tr>
<tr>
<td>Margay</td>
<td>4.2</td>
</tr>
<tr>
<td>Crabier</td>
<td>3.5</td>
</tr>
<tr>
<td>Agouti</td>
<td>3.3</td>
</tr>
<tr>
<td>Tatou Cirquinçon</td>
<td>3.3</td>
</tr>
<tr>
<td>Tatou Tatouate</td>
<td>3.3</td>
</tr>
<tr>
<td>Moufette Squash</td>
<td>3.3</td>
</tr>
<tr>
<td>Moufette Chinche</td>
<td>3.3</td>
</tr>
<tr>
<td>Moufette Conepate, Scunk</td>
<td>3.3</td>
</tr>
<tr>
<td>Moufette. Zorilla</td>
<td>3.3</td>
</tr>
<tr>
<td>Whabus. Hare. Rabbit</td>
<td>3.3</td>
</tr>
<tr>
<td>Aperea Akouchi</td>
<td>3.3</td>
</tr>
<tr>
<td>Ondatra. Muskrat</td>
<td>3.3</td>
</tr>
<tr>
<td>Piloti</td>
<td>3.3</td>
</tr>
<tr>
<td>Great grey squirrel</td>
<td>3.3</td>
</tr>
<tr>
<td>Fox squirrel of Virginia</td>
<td>3.3</td>
</tr>
<tr>
<td>Surikate</td>
<td>3.3</td>
</tr>
<tr>
<td>Mink</td>
<td>3.3</td>
</tr>
<tr>
<td>Sapajou. Sajou</td>
<td>3.3</td>
</tr>
<tr>
<td>Indian pig. Cochon d’Inde</td>
<td>3.3</td>
</tr>
<tr>
<td>Sapajou. Saùmiri</td>
<td>3.3</td>
</tr>
<tr>
<td>Phalanger</td>
<td>3.3</td>
</tr>
<tr>
<td>Coquallin</td>
<td>3.3</td>
</tr>
<tr>
<td>Leffer grey squirrel</td>
<td>3.3</td>
</tr>
<tr>
<td>Black squirrel</td>
<td>3.3</td>
</tr>
<tr>
<td>Red squirrel</td>
<td>3.3</td>
</tr>
<tr>
<td>Sagoin Saki</td>
<td>3.3</td>
</tr>
</tbody>
</table>

**II. Table**
II. Table continued.

<table>
<thead>
<tr>
<th>EUROPE</th>
<th>AMERICA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sagoin Pinche</td>
<td>ct.</td>
</tr>
<tr>
<td>Sagoin Tamarin</td>
<td>44</td>
</tr>
<tr>
<td>Sagoin Ouiiti</td>
<td>4</td>
</tr>
<tr>
<td>Sagoin Stinking</td>
<td>4</td>
</tr>
<tr>
<td>Sagoin Mico</td>
<td>4</td>
</tr>
<tr>
<td>Cayopollin</td>
<td>4</td>
</tr>
<tr>
<td>Fourmillier</td>
<td>4</td>
</tr>
<tr>
<td>Marmot</td>
<td>4</td>
</tr>
<tr>
<td>Sarigue of Cayenne</td>
<td>4</td>
</tr>
<tr>
<td>Tucan</td>
<td>4</td>
</tr>
<tr>
<td>Red mole</td>
<td>4</td>
</tr>
<tr>
<td>Ground squirrel</td>
<td>4</td>
</tr>
</tbody>
</table>

III. Domesticated in both.

<table>
<thead>
<tr>
<th></th>
<th>Europe</th>
<th>America</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cow</td>
<td>763</td>
<td>2,500</td>
</tr>
<tr>
<td>Horse</td>
<td>1366</td>
<td>1200</td>
</tr>
<tr>
<td>Ass</td>
<td>125</td>
<td>80</td>
</tr>
<tr>
<td>Hog</td>
<td>67.6</td>
<td>7</td>
</tr>
<tr>
<td>Sheep</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Goat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dog</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cat</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
I have not inserted in the first table the *Phoca nor leather-winged bat, because the one living half the year in the waters, and the other being a winged animal, the individuals of each species may visit both continents.

Of the animals in the first table Mons. Buffon himself informs us, [XXVII. 130. XXX. 213.] that the beaver, the otter, and shrew mouse, though of the same species, are larger in America than Europe. This should therefore have corrected the generality of his expressions XVIII. 145. and elsewhere, that the animals common to the two countries, are considerably less in America than in Europe, "& cela sans aucune exception." He tells us too, [Quadrup. VIII. 334. edit. Paris, 1777] that on examining a bear from America, he remarked no difference, "dans la forme de cet ours d’Amerique comparé a celui d’Europe." But adds from Bartram's journal, that an American bear weighed 400 lb. English, equal

* It is said, that this animal is seldom seen above 30 miles from shore, or beyond the 56th degree of latitude. The interjacent islands between Asia and America admit his passing from one continent to the other without exceeding these bounds. And, in fact, travellers tell us that these islands are places of principal resort for them, and especially in the season of bringing forth their young.
to 367 lb. French: whereas we find the European bear examined by Monf. D'Aubenton, [XVII. 82.] weighed but 141 lb. French. That the palmated Elk is larger in America than Europe we are informed by Kalm, a Naturalist who visited the former by public appointment for the express purpose of examining the subjects of Natural history. In this fact Pennant concurs with him. [Burlington's Miscellanies.] The same Kalm tells us that the Black Moofe, or Renne of America, is as high as a tall horse; and Catesby, that it is about the bigness of a middle sized ox. The same account of their size has been given to me by many who have seen them. But Monf. D'Aubenton says that the Renne of Europe is but about the size of a Red deer. The wapiti is larger in America than in Europe, as may be seen by comparing its dimensions as reported by Monf. D'Aubenton and Kalm. The latter tells us, that the lynx, badger, red fox, and flying squirrel, are the same in America as in Europe: by which expression I understand, they are the same in all material circumstances, in size as well as others: for if they were smaller, they would differ from the European. Our grey fox is, by Catesby's account, little different in size and shape from the European fox. I presume he means the red fox of Europe.
as does Kalm, where he says, that in size I. 220.
'though they do not quite come up to our foxes.'
For proceeding next to the red fox of America, he says 'they are entirely the same with
the European fort.' Which shews he had
in view one European fort only, which
was the red. So that the result of their tes-
timony is, that the American grey fox is
somewhat less than the European red; which
is equally true of the grey fox of Europe,
as may be seen by comparing the measures
of the Count de Buffon and Monf. D'Auben-
ton. The white bear of America is as large
as that of Europe. The bones of the Mam-
moth which have been found in America,
are as large as those found in the old world.
It may be asked, why I insert the Mammoth,
as if it still existed? I ask in return, why I
should omit it, as if it did not exist? Such
is the economy of nature, that no instance
can be produced of her having permitted
any one race of her animals to become ex-
tinct; of her having formed any link in her
great work so weak as to be broken. To
add to this, the traditionary testimony of the
Indians, that this animal still exists in the
northern and western parts of America, would
be adding the light of a taper to that of the
meridian sun. Those parts still remain in
their aboriginal state, unexplored and undif-

G 2   turbed
turbed by us, or by others for us. He may
as well exist there now, as he did formerly
where we find his bones. If he be a carni-
vorous animal, as some Anatomists have
conjectured, and the Indians affirm, his early
retirement may be accounted for from the
general destruction of the wild game by the
Indians, which commences in the first instat
of their connection with us, for the purpose
of purchasing matchcoats, hatchets, and fur
locks, with their skins. There remain then
the buffalo, red deer, fallow deer, wolf, 
glutton, wild cat, monax, vifon, hedge-hog,
martin, and water rat, of the comparative
sizes of which we have not sufficient testi-
mony. It does not appear that Mellis, de
Buffon and D'Aubenton have measured
weighed, or seen those of America. It is
said of some of them, by some travellers,
that they are smaller than the European. Be
who were these travellers? Have they not
been men of a very different description
from those who have laid open to us the
other three quarters of the world? Was na-
tural history the object of their travels? Did
they measure or weigh the animals they speak
of? or did they not judge of them by sight
or perhaps even from report only? Were
they acquainted with the animals of their
own country, with which they undertook to
compare their animals to ours?
compare them? Have they not been so igno-
orant as often to mistake the species? A
true answer to these questions would proba-
bly lighten their authority, so as to render it
insufficient for the foundation of an hypo-
thesis. How unripe we yet are, for an accurate com-
parison of the animals of the two countries,
will appear from the work of Mont. de Buff-
on. The ideas we should have formed of
the sizes of some animals, from the informa-
tion he had received at his first publica-
tions concerning them, are very different from
what his subsequent communications give
us. And indeed his candour in this can
never be too much praised. One sentence
of his book must do him immortal honour.
"J'aime autant une personne qui me releve Quad. IX.
d'une erreur, qu'une autre qui m'apprend
une verité, parce qu'en effet une erreur
corrigeé est une verité." He seems to have
thought the Cabiai he first examined wanted
little of its full growth. "Il n'etoit pas encore
tout-a-fait adulte." Yet he weighed but
46.5 lb. and he found afterwards, that these
animals, when full grown, weigh 100 lb.
He had supposed, from the examination of xix. 2.
a jaguar, said to be two years old, which
weighed but 16 lb. 12 oz. that, when he
should have acquired his full growth, he
would not be larger than a middle sized dog.

But
Quad. IX. But a subsequent account raises his weight to 200 lb. Further information will, doubtless, produce further corrections. The wonder is, not that there is yet something in this great work to correct, but that there is so little. The result of this view then is, that of 26 quadrupeds common to both countries, 7 are said to be larger in America, 7 of equal size, and 12 not sufficiently examined. So that the first table impeaches the first member of the assertion, that of the animals common to both countries, the American are smallest, "et cela fans aucune exception." It shews it not just, in all the latitude in which its author has advanced it, and probably not to such a degree as to found a distinction between the two countries.

Proceeding to the second table, which arranges the animals found in one of the two countries only, Mons. de Buffon observes, that the tapir, the elephant of America, is but of the size of a small cow. To preserve our comparison, I will add that the wild boar, the elephant of Europe, is little more than half that size. I have made an elk with round or cylindrical horns, an animal of America, and peculiar to it; because I have seen many of them myself, and more of their horns; and because I can say, from the best information, that, in Virginia, this kind of elk has abounded much, and still exists.
exists in smaller numbers; and I could never learn that the palmated kind had been seen here at all. I suppose this is confined to the more Northern latitudes*. I have made our hare

* The descriptions of Theodat, Denys and La Hontan, cited by Monfs. de Buffon under the article Elan, authorize the supposition, that the flat-horned elk is found in the northern parts of America. It has not however extended to our latitudes. On the other hand, I could never learn that the round-horned elk has been seen further North than the Hudson's river. This agrees with the former elk in its general character, being, like that, when compared with a deer, very much larger, its ears longer, broader, and thicker in proportion, its hair much longer, neck and tail shorter, having a dewlap before the breast (caruncula gastroplatis Linnæi) a white spot often, if not always, of a foot diameter, on the hinder part of the buttocks round the tail; its gait a trot, and attended with a rattling of the hoofs: but distinguished from that decisively by its horns, which are not palmated, but round and pointed. This is the animal described by Catesby as the Cervus major Americanus, the Stag of America, le Cerf de l’Amérique. But it differs from the Cervus as totally, as does the palmated elk from the dam. And in fact it seems to stand in the same relation to the palmated elk, as the red deer does to the fallow. It has abounded in Virginia, has been seen, within my knowledge, on the Eastern side of the Blue ridge since the year 1765, is now common beyond those mountains, has been often brought to us and tamed, and their horns are in the hands of many. I should designate it as the ‘Alces Americanus cornibus tereti-
hare or rabbit peculiar, believing it to be different from both the European animals or those denominations, and calling it therefore by its Algonquin name Whabus, to keep it distinct from these. Kalm is of the same opinion. I have enumerated the squirrels **'buz.'** It were to be wished, that Naturalists, who are acquainted with the renne and elk of Europe, and who may hereafter visit the northern parts of America, would examine well the animals called there by the names of grey and black moose, caribou, original, and elk. *Monse. de Buffon* has done what could be done from the materials in his hands; towards clearing up the confusion introduced by the loose application of these names among the animals they are meant to designate. He reduces the whole to the renne and flat-horned elk. From all the information I have been able to collect, I strongly suspect they will be found to consist of three, if not four distinct species of animals. I have seen skins of a moose, and of the caribou: they differ more from each other, and from that of the round-horned elk, than I ever saw two skins differ which belonged to different individuals of any wild species. These differences are in the colour, length, and coarseness of the hair, and in the size, texture, and marks of the skin. Perhaps it will be found that there is 1. the moose, black and grey, the former being said to be the male, and the latter the female. 2. The caribou or renne. 3. The flat-horned elk, or original. 4. The round-horned elk. Should this last, though possessing so nearly the characters of the elk, be found to be the same with the Cerf d’Ardennes or Brandbirk of Germany, still there will remain the three species first enumerated. See Catesby and Kalm, scapi, believe that the moose is the palemale elk original according...
according to our own knowledge, derived from daily sight of them, because I am not able to reconcile with that the European appellations and descriptions. I have heard of other species, but they have never come within my own notice. These, I think, are the only instances in which I have departed from the authority of Mons. de Buffon in the construction of this table. I take him for my ground work, because I think him the best informed of any Naturalist who has ever written. The result is, that there are 18 quadrupeds peculiar to Europe; more than four times as many, to wit 74, peculiar to America; that the first of these 74 weighs more than the whole column of Europeans; and consequently this second table disproves the second member of the assertion, that the

* The Tapir is the largest of the animals peculiar to America. I collect his weight thus. Mons. de Buffon says, XXIII. 274. that he is of the size of a Zebu, or a small cow. He gives us the measures of a Zebu, ib. 94. as taken by himself, viz. 5 feet 7 inches from the muzzle to the root of the tail, and 5 feet 1 inch circumference behind the fore legs. A bull, measuring in the same way 6 feet 9 inches and 5 feet 2 inches, weighed 600 lb. VIII. 153. The Zebu then, and of course the Tapir, would weigh about 500 lb. But one individual of every species of European peculiar would probably weigh less than 400 lb. These are French measures and weights.
animals peculiar to the new world are on a smaller scale, so far as that assertion relied on European animals for support: and it is in full opposition to the theory which makes the animal volume to depend on the circumstances of heat and moisture.

The IIId. table comprehends those quadrupeds only which are domestic in both countries. That some of these, in some parts of America, have become less than their original flock, is doubtless true; and the reason is very obvious. In a thinly peopled country, the spontaneous productions of the forests and waste fields are sufficient to support indifferently the domestic animals of the farmer, with a very little aid from him in the severest and scarcest season. He therefore finds it more convenient to receive them from the hand of nature in that indifferent state, than to keep up their size by a care and nourishment which would cost him much labour. If, on this low fare, these animals dwindle, it is no more than they do in those parts of Europe where the poverty of the soil, or poverty of the owner, reduces them to the same scanty subsistence. It is the uniform effect of one and the same cause, whether acting on this or that side of the globe. It would be erring therefore against that rule of philosophy, which teaches us to acribe like
like effects to like causes; should we impute this diminution of size in America to any imbecility or want of uniformity in the operations of nature. It may be affirmed with truth that, in those countries, and with those individuals of America, where necessity or curiosity has produced equal attention as in Europe to the nourishment of animals, the horses, cattle, sheep, and hogs of the one continent are as large as those of the other. There are particular instances, well attested, where individuals of this country have imported good breeders from England, and have improved their size by care in the course of some years. To make a fair comparison between the two countries, it will not answer to bring together animals of what might be deemed the middle or ordinary size of their species; because an error in judging of that middle or ordinary size would vary the result of the comparison. Thus Monsieur D'Autobenton considers a horse of 4 feet 5 inches high and 400 lb. weight French, equal to 4 feet 8.6 inches and 436 lb. English, as a middle sized horse. Such a one is deemed a small horse in America. The extremes must therefore be resorted to. The same anatomist dissected a horse of 5 feet 9 inches height, French measure, equal to 6 feet 1.7 English. This is near 6 inches higher than any horse I have
I have seen, and could not suppose that I had seen the largest horses in America, the conclusion would be, that ours have diminished, or that we have bred from a smaller stock. In Connecticut and Rhode-Island, where the climate is favorable to the production of grays, bullocks have been slaughtered which weighed 2500, 2200, and 2100 lb. nett; and those of 1800 lb. have been frequent. I have seen a * hog weigh 1050 lb. after the blood, bowels, and hair had been taken from him. Before he was killed an attempt was made to weigh him with a pair of steel-yards, graduated to 1200 lb., but he weighed more. Yet this hog was probably not within fifty generations of the European stock. I am well informed of another which weighed 1100 lb. gros. Asses have been still more neglected than any other domestic animal in America. They are neither fed nor housed in the most rigorous season of the year. Yet they are larger than those measured by Mons. D'Aubenton, of 3 feet 7½ inches, 3 feet 4 inches, and 3 feet 2½ inches, the latter weighing only 215.8 lb. These sizes, I suppose, have been produced by the same negligence in Europe, which has produced a like diminution here. Where care has been taken of them on that side of the

* In Williamsburg, April, 1769.
water, they have been raised to a size bordering on that of the horse; not by the beat and dryness of the climate, but by good food and shelter. Goats have been also much neglected in America. Yet they are very prolific here, bearing twice or three times a year, and from one to five kids at a birth. Monf. de Buffon has been sensible of a difference in this circumstance in favour of America. But what are their greatest weights I cannot say. A large sheep here weighs 100 lb. I observe Monf. D'Aubenton calls a ram of 62 lb. one of the middle size. But to say what are the extremes of growth in these and the other domestic animals of America, would require information of which no one individual is possessed. The weights actually known and stated in the third table preceding will suffice to shew, that we may conclude, on probable grounds, that, with equal food and care, the climate of America will preserve the races of domestic animals as large as the European stock from which they are derived; and consequently that the third member of Monf. de Buffon's assertion, that the domestic animals are subject to degeneration from the climate of America, is as probably wrong as the first and second were certainly so.
That the last part of it is erroneous, which affirms that the species of American quadrupeds are comparatively few, is evident from the tables taken all together. By these it appears that there are an hundred species aboriginal of America. Monf. de Buffon supposes about double that number existing on the whole earth. Of these, Europe, Asia, and Africa, furnish suppose 126; that is, the 26 common to Europe and America, and about 100 which are not in America at all. The American species then are to those of the rest of the earth, as 100 to 126, or 4 to 5. But the residue of the earth being double the extent of America, the exact proportion would have been but as 4 to 8.

Hitherto I have considered this hypothesis as applied to brute animals only, and not in its extension to the man of America, whether aboriginal or transplanted. It is the opinion of Monf. de Buffon that the former furnishes no exception to it. "Quoique le sauvage du nouveau monde soit à-peu-près de même stature que l'homme de notre monde, cela ne suffit pas pour qu'il puisse faire une exception au fait général du rapetissement de la nature vivante dans tout ce continent: le sauvage est faible & petit par les organes de la génération; il n'a ni poil, ni barbe, & nulle ardeur pour sa femelle; quoique plus léger.
léger que l'Européen parce qu'il a plus d'habitude à courir, il est cependant beaucoup moins fort de corps ; il est aussi bien moins sensible, & cependant plus craintif & plus lâche ; il n'a nulle vivacité, nulle activité dans l'âme ; celle du corps est moins un exercice, un mouvement volontaire qu'une nécessité d'action causée par le besoin ; otez lui la faim & la foir, vous détruirez en même temps le principe actif de tous ses mouvements ; il demeurera stupidement en repos sur ses jambes ou couché pendant des jours entiers. Il ne faut pas aller chercher plus loin la cause de la vie dispersée des sauvages & de leur éloignement pour la société : la plus précieuse étincelle du feu de la nature leur a été refusée ; ils manquent d'ardeur pour leur femelle, & par conséquent d'amour pour leur semblables : ne connaissant pas l'attachement le plus vif, le plus tendre de tous, leurs autres sentiments de ce genre sont froids & languissans ; ils aiment faiblement leurs pères & leurs enfans ; la société la plus intime de toutes, celle de la même famille, n'a donc chez eux que de soibles liens ; la société d'une famille à l'autre n'en a point du tout : dès lors nulle réunion, nulle république, nulle état social. La physique de l'amour fait chez eux le moral des mœurs ; leur cœur est glacé, leur société froide, &
leur empire dur. Ils ne regardent leurs femmes que comme des servantes de peine ou des bêtes de somme qu’ils chargent, sans ménagement, du fardeau de leur chasse, & qu’ils forcent sans pitié, sans reconnaissance, à des ouvrages qui souvent sont audessus de leurs forces: ils n’ont que peu d’enfans; ils en ont peu de soin; tout se ressent de leur premier défaut; ils sont indifférents parce qu’ils sont peu puissans, & cette indifférence pour le sexe est la tâche originelle qui fieit la nature, qui l’empêche de s’épanouir, & qui détruit les germes de la vie, coupe en même temps la racine de la société. L’homme ne fait donc point d’exception ici. La nature en lui refusant les puissances de l’amour l’a plus maltraité & plus rapetissé qu’aucun des animaux.

An afflicting picture indeed, which, for the honor of human nature, I am glad to believe has no original. Of the Indian of South America I know nothing; for I would not honor with the appellation of knowledge, what I derive from the fables published of them. These I believe to be just as true as the fables of Æsop. This belief is founded on what I have seen of man, white, red, and black, and what has been written of him by authors, enlightened themselves, and writing amidst an enlightened people. The Indian of North America being more within our reach, I can speak of him somewhat from my own knowledge.
my own knowledge, but more from the information of others better acquainted with him, and on whose truth and judgment I can rely. From these sources I am able to say, in contradiction to this representation, that he is neither more defective in ardor, nor more impotent with his female, than the white reduced to the same diet and exercise: that he is brave, when an enterprise depends on bravery; education with him making the point of honor consist in the destruction of an enemy by stratagem, and in the preservation of his own person free from injury; or perhaps this is nature; while it is education which teaches us to honor force more than finesse: that he will defend himself against an host of enemies, always charging to be killed, rather than to surrender, though it be

* Sol Rodomonte sprezza di venire

† In so judicious an author as Don Ulloa, and one to whom we are indebted for the most precise information we have of South America, I did not expect to find such assertions as the following. † Los Indios vencidos son los mas cobardes y pusillanimes que se puedan ver:—se hacen inocentes, se humillan hasta el desprecio, disculpaman su incon siderado arrojo, y con las súplicas y los ruegos dan seguras pruebas de su pusillanimitad.—6 lo que refieren las historias de la Conquista, sobre sus grandes acciones, es en un sentido figurado, 6 el carácter de esas gentes no es ahora según era entonces; pero lo que no tiene duda es, que las Naciones de
be to the whites, who he knows will treat him well; that in other situations also de la parte Septentrional subsisten en la misma libertad que siempre han tenido, sin haber sido feosjados por algun Príncipe extrano, y que viven según su régimen y costumbres de toda la vida, sin que haya habido motivo para que muden de carácter; y en estos se ve el mismo, que sucede en los del Perú, y de toda la América Meridional, reducidos, y que nunca lo han estado. Noticias Americanas. Entretienimiento XVIII. Don Ulloa here admits, that the authors who have described the Indians of South America, before they were enslaved, had represented them as a brave people, and therefore seems to have suspected that the cowardice which he had observed in those of the present race might be the effect of subjugation. But, supposing the Indians of North America to be cowards also, he concludes the ancestors of those of South America to have been so too, and therefore that those authors have given fictions for truths. He was probably not acquainted himself with the Indians of North America, and had formed his opinion of them from hearsay. Great numbers of French, of English, and of Americans, are perfectly acquainted with these people. Had he had an opportunity of enquiring of any of these, they would have told him, that there never was an instance known of an Indian begging his life when in the power of his enemies: on the contrary, that he courts death by every possible insult and provocation. His reasoning then would have been reversed thus: *Since the present Indian of North America is brave, and authors tell us that the ancestors of those of South America were brave also; it must follow, that the cowardice of their descendants is the effect of subjugation and ill treatment.* For he observes, ib. §. 27. that *los obrágés los aniquilan por la inhumanidad con que se les trata.*
meets death with more deliberation, and endures tortures with a firmness unknown almost to religious enthusiasm with us: that he is affectionate to his children, careful of them, and indulgent in the extreme: that his affections comprehend his other connections, weakening, as with us, from circle to circle, as they recede from the center: that his friendships are strong and faithful to the uttermost extremity: that his sensibility is keen, even the warriors weeping most bitterly.

A remarkable instance of this appeared in the case of the late Col. Byrd, who was sent to the Cherokee nation to transact some business with them. It happened that some of our disorderly people had just killed one or two of that nation. It was therefore proposed in the council of the Cherokees that Col. Byrd should be put to death, in revenge for the loss of their countrymen. Among them was a chief called Silouee, who, on some former occasion, had contracted an acquaintance and friendship with Col. Byrd. He came to him every night in his tent, and told him not to be afraid, they should not kill him. After many days deliberation, however, the determination was, contrary to Silouee’s expectation, that Byrd should be put to death, and some warriors were dispatched as executioners. Silouee attended them, and when they entered the tent, he threw himself between them and Byrd, and said to the warriors, “this man is my friend: before you get at him, you must kill me.” On which they returned, and the council respected the principle so much as to recede from their determination.
on the loss of their children, though in general they endeavour to appear superior to human events: that his vivacity and activity of mind is equal to ours in the same situation; hence his eagerness for hunting, and for games of chance. The women are submitted to unjust drudgery. This I believe is the case with every barbarous people. With such, force is law. The stronger sex therefore imposes on the weaker. It is civilization alone which replaces women in the enjoyment of their natural equality. That first teaches us to subdue the selfish passions, and to respect those rights in others which we value in ourselves. Were we in equal barbarism, our females would be equal drudges. The man with them is less strong than with us, but their woman stronger than ours; and both for the same obvious reason; because our man and their woman is habituated to labour, and formed by it. With both races the sex which is indulged with ease is least athletic. An Indian man is small in the hand and wrist for the same reason for which a sailor is large and strong in the arms and shoulders, and a porter in the legs and thighs. They raise fewer children than we do. The causes of this are to be found, not in a difference of nature, but of circumstance. The women very frequently attending the men in their
their parties of war and of hunting, child-bearing becomes extremely inconvenient to them. It is said, therefore, that they have learnt the practice of procuring abortion by the use of some vegetable; and that it even extends to prevent conception for a considerable time after. During these parties they are exposed to numerous hazards, to excessive exertions, to the greatest extremities of hunger. Even at their homes the nation depends for food, through a certain part of every year, on the gleanings of the forest: that is, they experience a famine once in every year. With all animals, if the female be badly fed, or not fed at all, her young perish: and if both male and female be reduced to like want, generation becomes less active, less productive. To the obstacles then of want and hazard, which nature has opposed to the multiplication of wild animals, for the purpose of restraining their numbers within certain bounds, those of labour and of voluntary abortion are added with the Indian. No wonder then if they multiply less than we do. Where food is regularly supplied, a single farm will shew more of cattle, than a whole country of forests can of buffaloes. The same Indian women, when married to white traders, who feed them and their children plentifully and regularly, who exempt them
them from excessive drudgery, who keep them stationary and unexposed to accident, produce and raise as many children as the white women. Instances are known, under these circumstances, of their rearing a dozen children. An inhuman practice once prevailed in this country of making slaves of the Indians. It is a fact well known with us that the Indian women so enslaved produced and raised as numerous families as either the whites or blacks among whom they lived. It has been said, that Indians have less hair than the whites, except on the head. But this is a fact of which fair proof can scarcely be had. With them it is disgraceful to be hairy on the body. They say it likens them to hogs. They therefore pluck the hair as fast as it appears. But the traders who marry their women, and prevail on them to discontinue this practice, say, that nature is the same with them as with the whites. Now, if the fact be true, is the consequence necessary which has been drawn from it. Negros have notoriously less hair than the whites; yet they are more ardent. But if cold and moisture be the agents of nature for diminishing the races of animals, how comes it all at once to suspend their operation as to the physical man of the new world, whom the Count acknowledges to be "a peu près 44
de même nature que l'homme de notre monde, and to lose their influence on his moral faculties? How has this combination XVIII. 145 of the elements and other physical causes, so contrary to the enlargement of animal nature in this new world, these obstacles to the development and formation of great germs, been arrested and suspended, so as to permit the human body to acquire its just dimensions, and by what inconceivable process has their action been directed on his mind alone? To judge of the truth of this, to form a just estimate of their genius and mental powers, more facts are wanting, and great allowance to be made for those circumstances of their situation which call for a display of particular talents only. This done, we shall probably find that they are formed in mind as well as in body, on the same module with the *Homo sapiens Europæus.* The principles of their society forbidding all compulsion, they are led to duty and enterprise by personal influence and persuasion. Hence eloquence in council, bravery and address in war, become the foundations of all consequence with them. To these acquisitions all their faculties are directed. Of their bravery and address in war we have multiplied proofs, because we have been the

* Linn. Syll. Definition of a Man.

H 4 subjects
subjects on which they were exercised. Of their eminence in oratory we have fewer examples, because it is displayed chiefly in their own councils. Some, however, we have of very superior lustre. I may challenge the whole orations of Demosthenes and Cicero, and of any more eminent orator, if Europe has furnished more eminent, to produce a single passage, superior to the speech of Logan, a Mingo chief, to Lord Dunmore, then governor of this state. And, as a testimony of their talents in this line, I beg leave to introduce it, first stating the incidents necessary for understanding it. In the spring of the year 1774, a robbery and murder were committed on an inhabitant of the frontier of Virginia, by two Indians of the Shawano tribe. The neighbouring whites, according to their custom, undertook to punish the outrage in a summary way. Col. Cresap, a man infamous for the many murders he had committed on those much-injured people, collected a party, and proceeded down the Kanawhoy in quest of vengeance. Unfortunately a canoe of women and children, with one man only, was seen coming from the opposite shore, unarmed, and unfulfilling an hostile attack from the whites. Cresap and his party concealed themselves on the bank of the river, and the moment they
noe reached the shore, singled out their objects, and, at one fire, killed every person in it. This happened to be the family of Logan, who had long been distinguished as a friend of the whites. This unworthy return provoked his vengeance. He accordingly signalized himself in the war which ensued. In the autumn of the same year, a decisive battle was fought at the mouth of the Great Kanhaway, between the collected forces of the Shawanees, Mingoes, and Delawares, and a detachment of the Virginia militia. The Indians were defeated, and sued for peace. Logan however disdained to be seen among the suppliants. But, lest the sincerity of a treaty should be distrusted, from which so distinguished a chief absented himself, he sent by a messenger the following speech to be delivered to Lord Dunmore.

"I appeal to any white man to say, if ever he entered Logan's cabin hungry, and he gave him not meat; if ever he came cold and naked, and he clothed him not. During the course of the last long and bloody war, Logan remained idle in his cabin, an advocate for peace. Such was my love for the whites, that my countrymen pointed as they passed, and said, 'Logan is the friend of white men.' I had even thought to have lived with you, but for the injuries of one man."
man. Col. Cresap, the last spring, in cold blood, and unprovoked, murdered all the relations of Logan, not sparing even my women and children. There runs not a drop of my blood in the veins of any living creature. This called on me for revenge. I have fought it: I have killed many: I have fully glutted my vengeance. For my country, I rejoice at the beams of peace. But do not harbour a thought that mine is the joy of fear. Logan never felt fear. He will not turn on his heel to save his life. Who is there to mourn for Logan?—Not one.'

Before we condemn the Indians of this continent as wanting genius, we must consider that letters have not yet been introduced among them. Were we to compare them in their present state with the Europeans North of the Alps, when the Roman arms and arts first crossed those mountains, the comparison would be unequal, because, at that time, those parts of Europe were swarming with numbers; because numbers produce emulation, and multiply the chances of improvement, and one improvement begets another. Yet I may safely ask, How many good poets, how many able mathematicians, how many great inventors in arts or sciences, had Europe North of the Alps then produced? And it was sixteen centuries after this before...
a Newton could be formed. I do not mean
to deny, that there are varieties in the race
of man, distinguished by their powers both
of body and mind. I believe there are, as
I see to be the case in the races of other
animals. I only mean to suggest a doubt,
whether the bulk and faculties of animals
depend on the side of the Atlantic on which
their food happens to grow, or which fur-
nishes the elements of which they are com-
pounded? Whether nature has enlisted her-
sel as a Cis or Trans-Atlantic partisan? I
am induced to suspect, there has been more
eloquence than found reasoning displayed in
support of this theory; that it is one of those
cases where the judgment has been seduced
by a glowing pen; and whilst I render every
tribute of honor and esteem to the celebrated
Zoologist, who has added, and is still adding,
so many precious things to the treasures
of science, I must doubt whether in this in-
stance he has not cherished error also, by
lending her for a moment his vivid imagina-
tion and bewitching language. (4)

So far the Count de Buffon has carried
this new theory of the tendency of nature to
belittle her productions on this side the At-
lantic. Its application to the race of whites,
transplanted from Europe, remained for the
Abbé Raynal. On doit être étonné (he
fays) de voir des animaux fiers et mag-
ifiques, et de voir des êtres dont les corps
sont de grandeur naturelle, se multiplier et
s'accroître, sans se rendre compte de
l'importance qu'ils attribuent à leur propre
nature. Quel est le secret de cette pro-
duction? Il est dans la nature, et dans
la disposition de l'esprit humain. La na-
ture est capable de produire des êtres
dont la grandeur est proportionnelle à
leur importance. Mais cette grandeur,
qui est la production de la nature, est
moins importante que celle qui est la pro-
duction de l'esprit humain. La nature,
qui est capable de produire des êtres
dont la grandeur est proportionnelle à
leur importance, est capable de produire
aussi des êtres dont la grandeur est propor-
cionnelle à leur importance et à la produc-
tion de l'esprit humain.
says) que l'Amérique n'ait pas encore produit un bon poète, un habile mathematicien, un homme de génie dans un seul art, ou une seule science.' 7. Hist. Philos. p. 92. ed. Maastricht, 1774. ' America has not yet produced one good poet.' When we shall have existed as a people as long as the Greeks did before they produced a Homer, the Romans a Virgil, the French a Racine and Voltaire, the English a Shakespeare and Milton, should this reproach be still true, we will enquire from what unfriendly causes it has proceeded, that the other countries of Europe and quarters of the earth shall not have inscribed any name in the roll of poets.

But neither has America produced 'one able mathematician, one man of genius in a single art or a single science.' In war we have produced a Washington, whose memory will be adored while liberty shall have votaries, whose name will triumph over time, and will in future ages assume its just station among the most celebrated worthies of the world.

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"Has the world as yet produced more than two poets, acknowledged to be such by all nations? An Englishman, only, reads Milton with delight, an Italian Tasso, a Frenchman the Henriade, a Portuguese Camouens: but Homer and Virgil have been the rapture of every age and nation: they are read with enthusiasm in their originals by those who can read the originals, and in translations by those who cannot."

"These" right. Mr. — who has the power to transact the sale of these books?"
when that wretched philosophy shall be forgotten which would have arranged him among the
degeneracies of nature. In physics we have
produced a Franklin, than whom no one of the
present age has made more important disco-
veryes, nor has enriched philosophy with more,
or more ingenious solutions of the phænomena
of nature. We have supposed Mr. Ritten-
house second to no astronomer living: that
in genius he must be the first, because he is
self-taught. As an artist he has exhibited as
great a proof of mechanical genius as the
world has ever produced. He has not in-
deed made a world; but he has by imitation
approached nearer its Maker than any man
who has lived from the creation to this day.*
As in philosophy and war, so in government,
in oratory, in painting, in the plastic art, we
might shew that America, though but a child
of yesterday, has already given hopeful proofs
of genius, as well of the nobler kinds, which
arouse the best feelings of man, which call
him into action, which substantiate his free-
dom, and conduct him to happiness, as of

* There are various ways of keeping truth out of
fight. Mr. Rittenhouse's model of the planetary system
has the plagiarist appellation of an Orrery; and the qua-
drant invented by Godfrey, an American also, and with
the aid of which the European nations traverse the
globe, is called Hadley's quadrant. Huyghens gave
the first description of an instrument of the former
kind under the name of Automation Planarum, the
the subordinate, which serve to amuse him only. We therefore suppose, that this reproach is as unjust as it is unkind; and that, of the geniuses which adorn the present age, America contributes its full share. For comparing it with those countries, where genius is most cultivated, where are the most excellent models for art, and scaffoldings for the attainment of science, as France and England for instance, we calculate thus. The United States contain three millions of inhabitants; France twenty millions; and the British islands ten. We produce a Washington, a Franklin, a Rittenhouse. France then should have half a dozen in each of these lines, and Great-Britain half that number, equally eminent. It may be true, that France has: we are but just becoming acquainted with her, and our acquaintance so far gives us high ideas of the genius of her inhabitants. It would be injuring too many of them to name particularly a Voltaire, a Buffon, the constellation of Encyclopedists, the Abbé Raynal himself, &c. &c. We therefore have reason to believe she can produce her full quota of genius. The present war having long cut off all communication with Great-Britain, we are not able to make a fair estimate of the state of science in that country. The spirit in which she wages war is the only sample
sample before our eyes, and that does not
seem the legitimate offspring either of sci-
ence or of civilization. The fun of her glory
is fast descending to the horizon. Her phi-
losophy has crossed the Channel, her freedom
the Atlantic, and herself seems passing to that
awful dissolution, whose issue is not given
human foresight to scan.*

Having

* In a later edition of the Abbé Raynal’s work, he
has withdrawn his censure from that part of the new
world inhabited by the Federo-Americans; but has left
it still on the other parts. North America has always
been more accessible to strangers than South. If he was
mistaken then as to the former, he may be so as to the
latter. The glimmerings which reach us from South
America enable us only to see that its inhabitants are
held under the accumulated pressure of slavery, super-
flition, and ignorance. Whenever they shall be able
to rise under this weight, and to shew themselves to
the rest of the world, they will probably shew they are
like the rest of the world. We have not yet sufficient
evidence that there are more lakes and fogs in South
America than in other parts of the earth. As little do
we know what would be their operation on the mind of
man. That country has been visited by Spaniards and
Portuguese chiefly, and almost exclusively. These, going
from a country of the old world remarkably dry in its
soil and climate, fancied there were more lakes and fogs
in South America than in Europe. An inhabitant of
Ireland, Sweden, or Finland, would have formed the
contrary opinion. Had South America then been dis-
covered and settled by a people from a fenny country,
Having given a sketch of our minerals, vegetables, and quadrupeds, and being led by a proud theory to make a comparison of the latter with those of Europe, and to extend it to the Man of America, both aboriginal and emigrant, I will proceed to the remaining articles comprehended under the present query.

Between ninety and an hundred of our birds have been described by Catesby. His drawings are better as to form and attitude, than colouring, which is generally too high. They are the following.

It would probably have been represented as much finer than the old world. A patient pursuit of facts, and cautious combination and comparison of them, is the drudgery to which man is subjected by his Maker, if he wishes to attain sure knowledge.
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<td>Picus Carolinus</td>
<td>Picus varias minimus</td>
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<td>Picus pubescens</td>
<td>Picus medius quasi-villosus</td>
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<td>Picus villofos</td>
<td>Picus varias minor ventre luteo</td>
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<td>Ipida</td>
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<td>Tachyphonus Caroliniensis</td>
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<td>Anas minor purpureo capite</td>
<td>1.92 Wild goose</td>
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<td>Anas ruftica</td>
<td>Anas minor ex albo &amp; fulco vario</td>
<td>1.93 Buffel's head duck</td>
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<td>Querquedula Americana variegata</td>
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<td>Ardea Herodias</td>
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<td>Tetrao Virginianus</td>
<td>Perdix Sylvebris Virginiana</td>
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<td>Columba passerina</td>
<td>Urogallus minor, or a kind of Lagopus</td>
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<td>Turtur minimus guttatus</td>
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<td>Turtur Carolinensis</td>
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<td></td>
<td>Alauda guttata flavo</td>
<td>1.24</td>
<td>Turtle. Turtle dove</td>
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<td></td>
<td></td>
<td>1.32</td>
<td>Lark. Sky lark</td>
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*The Pheasant is rarely or not at all found beyond N. Carolina. The grouse is first seen in Pennsylvania and the country North of Ohio, hence northwards.*
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<th>Linnaean Designation</th>
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<tr>
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<td>Hortulanus Carolinianus</td>
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<td>Fringilla tricolor</td>
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<td>Cowpen bird</td>
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**Species Names**

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<td>Monacilla regulosa</td>
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Besides these, we have

<table>
<thead>
<tr>
<th>The Royton crow, Corvus corax.</th>
<th>The Cormorant.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crane, Ardea Canadensis.</td>
<td>Duck and Mallard,</td>
</tr>
<tr>
<td>House swallow, Hirundo rustica.</td>
<td>Widgeon.</td>
</tr>
<tr>
<td>Ground swallow, Hirundo riparia.</td>
<td>Sheldrach, or Canvas back.</td>
</tr>
<tr>
<td>Greatest grey eagle.</td>
<td>Black head.</td>
</tr>
<tr>
<td>Smaller turkey buzzard, with a feathered head.</td>
<td>Ball-coot.</td>
</tr>
<tr>
<td>Greatest owl, or night hawk.</td>
<td>Sprigtail.</td>
</tr>
<tr>
<td>Wethawk, which feeds flying.</td>
<td>Didapper, or Dophick</td>
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<tr>
<td>Raven.</td>
<td>Spoon billed duck.</td>
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<tr>
<td>Water pelican of the Mississippi, whose pouch holds a peck.</td>
<td>Water-witch.</td>
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<tr>
<td>Swan.</td>
<td>Water-pearl.</td>
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<tr>
<td>Loon.</td>
<td>Blue Peter.</td>
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<td></td>
<td>Water wagtail.</td>
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<td>Yellow-legged snipe.</td>
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<td>Squatting snipe.</td>
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<td>Small plover.</td>
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<td>Whistling plover.</td>
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<td></td>
<td>Woodcock.</td>
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<tr>
<td></td>
<td>Red bird, with black head, wings and tail.</td>
</tr>
</tbody>
</table>

And doubtless many others which have not yet been described and classified.

To this catalogue of our indigenous animals, I will add a short account of an anomaly of nature, taking place sometimes in the race of negroes brought from Africa, who, though black themselves, have in rare instances, white children, called Albinos. I have known four of these myself, and have faithful accounts of three others. The circumstances in which all the individuals agree are these. They are of a pallid cadaverous white, untinted with red, without any coloured spots or seams; their hair of the same kind of white, short, coarse, and curled as is that of the child. They have also short and thick black eyebrows, which, except that of age, agreeing with the rest of their blackness, make a feint of three fiftieths, of the third part of the circle, about the circumference of twelve years of age, in the life of a child. They have black eyes, and has incumbent whiskers, which commonly appear white, and in doing so, are much affected by the dirt in the air, and the property of the earth. This is patent both in the male and female. She is free from the time she is obviated over; but she had a
that of the negro; all of them well formed, strong, healthy, perfect in their senses, except that of fight, and born of parents who had no mixture of white blood. Three of these Albinos were sisters, having two other full sisters, who were black. The youngest of the three was killed by lightning, at twelve years of age. The eldest died at about 27 years of age, in child-bed, with her second child. The middle one is now alive in health, and has issue, as the eldest had, by a black man, which issue was black. They are uncommonly shrewd, quick in their apprehensions and in reply. Their eyes are in a perpetual tremulous vibration, very weak, and much affected by the sun: but they see better in the night than we do. They are of the property of Col. Skipwith, of Cumberland. The fourth is a negro woman, whose parents came from Guinea, and had three other children, who were of their own colour. She is freckled, her eye-fight so weak that she is obliged to wear a bonnet in the summer; but it is better in the night than day. She had an Albino child by a black man. It died at the age of four years old.
<table>
<thead>
<tr>
<th>Bird Species</th>
<th>Description</th>
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<tbody>
<tr>
<td>The Royal crow, Corvus corax</td>
<td>The Cormorant.</td>
</tr>
<tr>
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<td>Duck and Mallard.</td>
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<td>Wethawk, which feeds flying</td>
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<td>Raven</td>
<td>Water-billed duck.</td>
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<td>Water pelican of the Misissippi, whose pouch holds a peck</td>
<td>Water-quence.</td>
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<tr>
<td>Swan</td>
<td>Mow-bird.</td>
</tr>
<tr>
<td>Loon</td>
<td>Blue peter.</td>
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</tbody>
</table>

And doubtless many others which have not yet been described and classed.

To this catalogue of our indigenous animals, I will add a short account of an anomaly of nature, taking place sometimes in the race of negroes brought from Africa, who, though black themselves, have in rare instancies, white children, called Albino's. I have known four of these myself, and have known many others. The only member of the body that is remarkable is the face. In all the rest of the animal it is perfectly uniform. The face is a fine white, and it is tolerably clear and free from freckles. The eyes are large and black, and the nose is broad and flat. The hair is short and loose, and it is generally falling about the face. The skin is very soft and delicate, and it is not uncommon for it to be covered with small, white spots. The arms and legs are short and thick, and they are covered with a fine, downy hair. The hands and feet are large and broad, and they are covered with a thick, white hair. The voice is clear and sweet, and it is generally accompanied by a pleasant smile. The expression of the face is gentle and mild, and it is generally attended with a kind of bashfulness. The Albino's are usually of a gentle and mild disposition, and they are generally very sociable and agreeable. They are very fond of music, and they are usually very fond of singing and dancing. They are also very fond of painting and drawing, and they are usually very fond of reading and writing. The Albino's are very fond of playing with the children, and they are usually very fond of playing with the birds. They are also very fond of playing with the dogs, and they are usually very fond of playing with the cats. They are also very fond of playing with the cats, and they are usually very fond of playing with the dogs. They are also very fond of playing with the cats, and they are usually very fond of playing with the dogs. They are also very fond of playing with the cats, and they are usually very fond of playing with the dogs.
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jet black, by a black man. I am not informed as to her eye sight. The seventh instance is of a male belonging to a Mr. Lee, of Cumberland. His eyes are tremulous and weak. He is tall of stature, and now advanced in years. He is the only male of the Albinos which have come within my information. Whatever be the cause of the disease in the skin, or in its colouring matter, which produces this change, it seems more incident to the female than male sex. To these I may add the mention of a negro man within my own knowledge, born black, and of black parents; on whose chin, when a boy, a white spot appeared. This continued to increase till he became a man, by which time it had extended over his chin, lips, one cheek, the under jaw and neck on that side. It is of the Albino white, without any mixture of red, and has for several years been stationary. He is robust and healthy, and the change of colour was not accompanied with any sensible disease, either general or topical.

Of our fish and insects there has been nothing like a full description or collection. More of them are described in Catesby than in any other work. Many also are to be found in Sir Hans Sloane's Jamaica, as being common to that and this country. The hone-
ney-bee is not a native of our continent. Marcgrave indeed mentions a species of honey-bee in Brasil. But this has no sting, and is therefore different from the one we have, which resembles perfectly that of Europe. The Indians concur with us in the tradition that it was brought from Europe; but when, and by whom, we know not. The bees have generally extended themselves into the country, a little in advance of the white settlers. The Indians therefore call them the white man's fly, and consider their approach as indicating the approach of the settlements of the whites. A question here occurs, How far northwardly have these insects been found? That they are unknown in Lapland, I infer from Scheffer's information, that the Laplanders eat the pine bark, prepared in a certain way, instead of those things sweetened with sugar. 'Hoc comedunt pro rebus saccharo conditis.' Scheff. Lapp. c. 18. Certainly, if they had honey, it would be a better substi- tute for sugar than any preparation of the pine bark. Kalm tells us the honey bee can-1. 186, not live through the winter in Canada. They furnish then an additional proof of the remarkable fact first observed by the Count de Buffon, and which has thrown such a blaze of light on the field of natural history, that no animals are found in both continents, but those
those which are able to bear the cold of those regions where they probably join.

We have it from the Indians also, that the common coniferous tree is not originally of America, but carried with the vessels from Europe.

QUERY VII.

A NOTICE of all what can increase the progress of human knowledge.

Under the latitude of this query, I will presume it not improper nor unacceptable to furnish some data for estimating the climate of Virginia. Journals of observations on the quantity of rain, and degree of heat, being lengthy, confused, and too minute to produce general and distinct ideas, I have taken five years observations, to wit, from 1772 to 1777, made in Williamsburgh and its neighbourhood, have reduced them to an average for every month in the year, and stated those averages in the following table, adding an analytical view of the winds during the same period.
In the month of August 1801, I carefully examined the temperature of my well water in the district of Maine, and found it at 52 degrees of Fahrenheit. The temperature of the water at the time of examination was 43 feet, the depth of the water at the time was 14 feet. The latitude of the place is 44° 22' N., Longitude about 69° 40'.

In Sept. 1802, I examined with the same instrument and with equal care, the temperature of the well water where I live on the hospital hill, and found it at 50° 19' of Fahrenheit. This well is upward of 40 feet in depth and had at the time about 70 feet of water.

My well in Maine is an open draw well without a percolation. The well on the hospital hill has a tunnel 2 or 3 feet deep.

The temperature of the water of the Hoosic river, the latter part of August was 72° by Fahrenheit.
<table>
<thead>
<tr>
<th>Date</th>
<th>Max &amp; Min daily heat</th>
<th>N.E.</th>
<th>E.</th>
<th>S.E.</th>
<th>S.</th>
<th>S.W.</th>
<th>W.</th>
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<td>11</td>
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<td>11</td>
<td>4</td>
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<td>Nov. 21</td>
<td>8 A.M.</td>
<td>611</td>
<td>548</td>
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<td>223</td>
<td>109</td>
<td>926</td>
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Note: The table contains data on daily heat and wind direction and speed for the months of September to November. Each row represents a day with the date, maximum and minimum daily heat, and wind conditions in different directions. The total values are calculated for each month.
the account of the rent paid by the occupier of the property. The rent was recorded in 1805. The rent was £5.

The account book shows the proceeds of the rent paid. The rent was recorded in 1805. The rent was £5.
<table>
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<tr>
<th>Month</th>
<th>W</th>
<th>N</th>
<th>E</th>
<th>S</th>
<th>Total</th>
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<td>168</td>
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<td>319 6</td>
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<td>70</td>
<td>168</td>
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<tr>
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<td>55</td>
<td>62</td>
<td>319 6</td>
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<td>47</td>
<td>52</td>
<td>70</td>
<td>168</td>
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<tr>
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<td>2771 4</td>
<td>61</td>
<td>55</td>
<td>62</td>
<td>319 6</td>
</tr>
<tr>
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<td>3755 4</td>
<td>47</td>
<td>52</td>
<td>70</td>
<td>168</td>
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<tr>
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<td>4971 7</td>
<td>61</td>
<td>55</td>
<td>62</td>
<td>319 6</td>
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<tr>
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<td>4763 4</td>
<td>47</td>
<td>52</td>
<td>70</td>
<td>168</td>
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<tr>
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<td>3631 4</td>
<td>61</td>
<td>55</td>
<td>62</td>
<td>319 6</td>
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<tr>
<td>Nov.</td>
<td>2871 4</td>
<td>47</td>
<td>52</td>
<td>70</td>
<td>168</td>
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<tr>
<td>Dec.</td>
<td>4754 6</td>
<td>61</td>
<td>55</td>
<td>62</td>
<td>319 6</td>
</tr>
</tbody>
</table>

Total: 2871 4

(Subject to have been made at Monticello.)
The rains of every month, (as of January for instance) through the whole period of years, were added separately, and an average drawn from them. The coolest and warmest point of the same day in each year of the period were added separately, and an average of the greatest cold and greatest heat of that day, was formed. From the averages of every day in the month, a general average for the whole month was formed. The point from which the wind blew was observed two or three times in every day. These observations, in the month of January for instance, through the whole period amounted to 337. At 73 of these, the wind was from the North; at 47, from the North-east, &c. So that it will be easy to see in what proportion each wind usually prevails in each month: or, taking the whole year, the total of observations through the whole period having been 3698, it will be observed that 611 of them were from the North, 555 from the North-east, &c.

Though by this table it appears we have on an average 47 inches of rain annually, which is considerably more than usually falls in Europe, yet from the information I have collected, I suppose we have a much greater proportion of sunshine here than there. Perhaps it will be found there are twice as many
many cloudy days in the middle parts of Europe, as in the United States of America. I mention the middle parts of Europe, because my information does not extend to its northern or southern parts.

In an extensive country, it will of course be expected that the climate is not the same in all its parts. It is remarkable that, proceeding on the same parallel of latitude westwardly, the climate becomes colder in like manner as when you proceed northwardly. This continues to be the case till you attain the summit of the Alleghany, which is the highest land between the ocean and the Mississippi. From thence, descending in the same latitude to the Mississippi, the change reverses; and, if we may believe travellers, it becomes warmer there than it is in the same latitude on the sea side. Their testimony is strengthened by the vegetables and animals which subsist and multiply there naturally, and do not on our sea coast. Thus Catalpas grow spontaneously on the Mississippi, as far as the latitude of 37°, and reeds as far as 38°. Perroquets even winter on the Sioto, in the 39th degree of latitude. In the summer of 1779, when the thermometer was at 90° at Monticello, and 96 at Williamsburgh, it was 110° at Kascaskia. Perhaps the mountain, which overhangs this village on the North
North side, may, by its reflection, have contributed somewhat to produce this heat. The difference of temperature of the air at the sea coast, or on Chesapeake bay, and at the Alleghaney, has not been ascertained, but cotemporary observations, made at Williamsburgh, or in its neighbourhood, and at Monticello, which is on the most eastern ridge of mountains, called the South Weft, where they are intersected by the Rivanna, have furnished a ratio by which that difference may in some degree be conjectured. These observations make the difference between Williamsburgh and the nearest mountains, at the position before mentioned, to be on an average 6.5 degrees of Fahrenheit's thermometer. Some allowance however is to be made for the difference of latitude between these two places, the latter being 38° 8'. 17", which is 52° 22". North of the former. By cotemporary observations of between five and six weeks, the averaged and almost unvaried difference of the height of mercury in the barometer, at those two places, was .784 of an inch, the atmosphere at Monticello being so much the lighter, that is to say, about 3/7 of its whole weight. It should be observed, however, that the hill of Monticello is of 500 feet perpendicular height above the river which washes its base.
This position being nearly central between our northern and southern boundaries, and between the bay and Alleghany, may be considered as furnishing the best average of the temperature of our climate. Williamsburgh is much too near the South-eastern corner to give a far idea of our general temperature.

But a more remarkable difference is in the winds which prevail in the different parts of the country. The following table exhibits a comparative view of the winds prevailing at Williamsburgh, and at Monticello. It is formed by reducing nine months observations at Monticello to four principal points, to wit, the North-east, South-east, South-west, and North-west; these points being perpendicular to, or parallel with our coast, mountains and rivers: and by reducing, in like manner, an equal number of observations, to wit, 421, from the preceding table of winds at Williamsburgh, taking them proportionally from every point.

<table>
<thead>
<tr>
<th></th>
<th>N.</th>
<th>E.</th>
<th>S.E.</th>
<th>S.</th>
<th>W.</th>
<th>N.W.</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Williamsburgh</td>
<td>127</td>
<td>61</td>
<td>132</td>
<td>101</td>
<td></td>
<td></td>
<td>421</td>
</tr>
<tr>
<td>Monticello</td>
<td>32</td>
<td>91</td>
<td>126</td>
<td>172</td>
<td></td>
<td></td>
<td>421</td>
</tr>
</tbody>
</table>

By this it may be seen that the South-west wind prevails equally at both places; that the
the North-east is, next to this, the principal wind towards the sea coast, and the North-west is the predominant wind at the mountains. The difference between these two winds to sensation, and in fact, is very great. The North-east is loaded with vapour, in- much, that the salt makers have found that their crystals would not shoot while that blows; it brings a distressing chill, is heavy and oppressive to the spirits: the North-west is dry, cooling, elastic and animating. The Eastern and South-eastern breezes come generally in the afternoon. They have advanced into the country very sensibly within the memory of people now living. They formerly did not penetrate far above Williamsburgh. They are now frequent at Richmond, and every now and then reach the mountains. They deposit most of their moisture however before they get that far. As the lands become more cleared, it is probable they will extend still further westward.

Going out into the open air, in the temperate, and in the warm months of the year, we often meet with bodies of warm air, which, passing by us in two or three seconds, do not afford time to the most sensible thermometer to seize their temperature. Judging from my feelings only, I think they approach the ordinary heat of the human body.
Some of them perhaps go a little beyond it. They are of about 20 or 30 feet diameter horizontally. Of their height we have no experience; but probably they are globular volumes wafted or rolled along with the wind. But whence taken, where found, or how generated? They are not to be ascribed to Volcanos, because we have none. They do not happen in the winter when the farmers kindle large fires in clearing up their grounds. They are not confined to the spring season, when we have fires which traverse whole counties, consuming the leaves which have fallen from the trees. And they are too frequent and general to be ascribed to accidental fires. I am persuaded their cause must be sought for in the atmosphere itself, to aid us in which I know but of these constant circumstances; a dry air; a temperature as warm at least as that of the spring or autumn; and a moderate current of wind. They are most frequent about sun-set; rare in the middle parts of the day; and I do not recollect having ever met with them in the morning.

The variation in the weight of our atmosphere, as indicated by the barometer, is not equal to two inches of mercury. During twelve months observation at Williamsburgh, the extremes were 29, and 30.86 inches, the
difference being 1.86 of an inch; and in nine months, during which the height of the mercury was noted at Monticello, the extremes were 28.48 and 29.69 inches, the variation being 1.21 of an inch. A gentleman, who has observed his barometer many years, assures me it has never varied two inches. Contemporary observations, made at Monticello and Williamsburgh, proved the variations in the weight of air to be simultaneous and corresponding in these two places.

Our changes from heat to cold, and cold to heat, are very sudden and great. The mercury in Farenheit’s thermometer has been known to descend from 92° to 47° in thirteen hours, and in a single and more

It is taken for granted, that the preceding table of averaged heat will not give a false idea on this subject, as it propofes to find only the ordinary heat and cold of each month, and not those which are extraordinary. At Williamsburgh in August 1768, the mercury in Farenheit’s thermometer was at 98°, corresponding with 29½ of Reaumur. At the same place in January 1780, it was at 6°, corresponding with 11½ below 0 of Reaumur. I believe these may be confirmed.

* At Paris, in 1753, the mercury in Reaumur’s thermometer was at 30½ above 0, and in 1776, it was
dered to be nearly the extremes of heat and
cold in that part of the country. The latter
may most certainly, as, at that time, York
river, at York town, was frozen over, so that
people walked across it; a circumstance
which proves it to have been colder than the
winter of 1740, 1741, usually called the
cold winter, when York river did not freeze
over at that place. In the same season of
1780, Cheapeak bay was solid, from its
head to the mouth of Patowmac. At An-
napolis, where it is 5.5 miles over between
the nearest points of land, the ice was from
5 to 7 inches thick quite across, so that
loaded carriages went over on it. Those,
our extremes of heat and cold, of 6° and
98°, were indeed very distressing to us, and
were thought to put the extent of the human
constitution to considerable trial. Yet a Si-
berian would have considered them as scarce-
ly a sensible variation. At Jennifeitz in
that country, in latitude 58°. 27’, we are
told, that the cold in 1735 sunk the mercury
by Farenheit’s scale to 126°, below nothing;
and the inhabitants of the same country use
January 17th, move rooms two or three times a week, in
which they stay two hours at a time, the at-
mosphere at 16 below o. The extremities of heat and cold
therefore at Paris, are greater than at Williamsburgh,
which is in the hottest part of Virginia.
mosphere of which raises the mercury to 347° above nothing. Late experiments shew that the human body will exist in rooms heated to 140° of Reaumur, equal to 347° of Fahrenheit, and 135° above boiling water. The hottest point of the 24 hours is about four o'clock, P. M., and the dawn of day the coldest.

The access of frost in autumn, and in frost in the spring, do not seem to depend merely on the degree of cold; much less on the air's being at the freezing point. When frosts are frequent when the thermometer at 47° have killed young plants of Indian corn at 48° and have been known at 50°. Black frost, and even ice, have been produced at 38½°, which is 6½ degrees above the freezing point. That other circumstances must be combined with the cold to produce frost, is evident from this also, that on the higher parts of mountains, where it is absolutely colder than in the plains at which they stand, frosts do not appear early by a considerable space of time in autumn, and go off sooner in the spring, than in the plains. I have known frosts so severe as to kill the hickory trees round about Monticello, and yet not injure the tender fruits blossoms then in bloom on the top and higher parts of the mountain; and in the
The following observations on heat and cold, as they affect the animal body, may not be unacceptable to those who have not paid particular attention to the subject.

The living body (not like the dead one, which assumes the temperature of the surrounding atmosphere) maintains within itself a steady heat of about 96° Farenheit's thermometer, varying little with the ordinary variations of the atmosphere. This heat is principally supplied by respiration. The vital air, or oxygen of the atmospheric fluid inhaled, is separated by the lungs from the exhaled carbonic acid, and is absorbed by them; the caloric is disengaged, diffused through the mass of the body, and absorbed from the skin by the external air coming into contact with it. If the external air is of a high temperature, it does not take up the superfluous heat of the body fast enough, and we complain of too much heat; if it is very cold, it absorbs the heat too fast, produces the sensation of cold. To remedy this, we interpose a covering, which, acting as a strainer, lets less air come into contact with the body, and checks the escape of the vital heat. As the atmospheric air becomes colder, more or thicker coverings are used, till no more than the requisite portion of heat is conducted from the body, as it would be inconvenient in the day to be burthened with a mass of clothing entirely equivalent to great degrees of cold, we have resort to finer and warmer rooms to correct the state of the atmosphere, as a supplement to our clothing. If we have not the opportunity, and the cold is excessive, the thinner parts, as the ear, the nose, the fingers and toes lose heat till they freeze, and, if the cold be sufficient, the whole body is reduced in heat till death ensues; as sailors experience, who escape from ship-wreck, in winter storms, on desert shores, where no fire can be found.
Of the substances we use for covering, linen seems the openest strainer, for admission of air to the body, and the most copious conductor of heat from it; and is therefore considered as a cool clothing. Cotton obstructs still more the passage of both fluids; and wool more than cotton. It is called therefore a worse conductor of heat, and warmer clothing. Next to this are the fur, and the most impermeable of all for heat and air, are feathers and down, and especially the down of the Eider duck (Anas mollissima). Hence the insensibility to cold of the beaks with shaggy hair, or fine fur, and of the birds in proportion as they are provided with down and soft feathers, as the swan, goose, and duck.

Among the substances which, as being bad conductors of heat, form, and warm the animal body, are the leaves of the Espeletia Trailexon, a plant newly discovered by the great Naturalist and Traveller Baron Humboldt, on the mountains of S. America, at the height of 2400 toises above the sea. These leaves being furnished abundantly with a soft down, restore immediately to their use warmth the hands, feet, or other members benumbed with cold; and collected as a bed, protect from death the Indian benighted in these regions of extreme cold. The same scientific traveller, by analysis of the air, at different heights on the mountain of Chimborazo, which he ascended to the height of 3036 toises, (546 toises higher than had ever been done by man before, and within 224 toises of its top) found that the oxygen being specifically heavier than the airtic part of the atmosphere, its proportion lessened in that ascent 27 to 28 to 19 ½ hundredths parts. The same circumstance had been before observed by Sauvage, Pinet, Rebuffet on the high mountains of Europe, and must be among the principal causes of the degree in which the animal body is affected with cold in situations more or less elevated.
In addition to the effect of vital air, as the vehicle of animal heat, we may note that it is also the immediate cause, or primum mobile of life. For, entering by respiration into the air-cells of the lungs, divided from those of the blood but by a thin membrane, it infuses thro’ that a stimulus into the blood, which acting on the irritable fibres of the heart, excites mechanically the action and reaction of that muscle. By these the blood is propelled, and received again in a course of constant circulation, and vital action communicated and maintained thro’ all the system. Intercept vital air from the lungs, the action of the heart ceases for want of stimulus, the current of the blood, unaided, yields to the resistance of its channels, all the vital motions are suspended, and the body becomes an inanimate lump of matter.
course of 40 years, during which it has been settled, there have been but two instances of a general loss of fruit on it: while, in the circumjacent country, the fruit has escaped but twice in the last seven years. The plants of tobacco, which grow from the roots of those which have been cut off in the summer, are frequently green here at Christmas. This privilege against the frost is undoubtedly combined with the want of snow on the mountains. That the dew is very rare on their higher parts, I may say with certainty, from 12 years observations, having scarcely ever, during that time, seen a unequivocal proof of its existence—on them at all during summer. Severe frosts in the depth of winter prove that the region of dews extends higher in that season than the tops of the mountains: but certainly, in the summer season, the vapours, by the time they attain that height, are become so attenuated as not to sublime and form a dew when the sun retires.

The weevil has not yet ascended the high mountains.

A more satisfactory estimate of our climate to some, may perhaps be formed, by noting the plants which grow here, subject never to be killed by our severest colds. These are the fig, pomegranate, artichoke, K 3 and
and European walnut. In mild winter lettuce and endive require no shelter, but generally they need a slight covering. I do not know that the want of long moss, myrtle, swamp laurel, holly and cypress in the upper country, proceeds from a great degree of cold, nor that they were ever killed with any degree of cold in the lower country. The aloe lived in Williamsburg in the open air through the severe winter of 1779, 1780.

A change in our climate however is taking place very sensibly. Both heats and colds are become much more moderate within memory even of the middle-aged. Snows are less frequent and less deep. They do not often lie, below the mountains, more than one, two, or three days, and very rarely a week. They are remembered to have been formerly frequent, deep, and of long continuance. The elderly inform me the same service was common to be covered with snow about a third of the months in every year. The rivers, which then seldom failed to freeze over in the course of the winter, scarcely ever do so now. This change has produced an unfortunate abstraction between heat and cold, in the spring of the year, which is very fatal to fruits. For the year 1741 to 1769, an interval of two eight years, there was no instance of
killed by the frost in the neighbourhood of Monticello. An intense cold, produced by constant snows, kept the buds locked up till the sun could obtain, in the spring of the year, so fixed an ascendancy as to dissolve those snows, and protect the buds, during their development, from every danger of returning cold. The accumulated snows of the winter remaining to be dissolved all together in the spring, produced those overflowing of our rivers, so frequent then, and so rare now.

Having had occasion to mention the particular situation of Monticello for other purposes, I will just take notice that its elevation affords an opportunity of seeing a phenomenon which is rare at land, though frequent at sea. The seamen call it looming. Philosophy is as yet in the rear of the seamen, for so far from having accounted for it, she has not given it a name. Its principal effect is to make distant objects appear larger, in opposition to the general law of vision, by which they are diminished. I knew an instance, at York town, from whence the water prospect eastwardly is without termination, wherein a canoe with three men, at a great distance, was taken for a ship with its three masts. I am little acquainted with the phenomenon as it shews itself.

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*Dr. Shaw in his Physical Observations on Syria, speaking of the Easterly winds, called by Seamen Levanters, says: 'We are likewise to observe further with regard to these strong Easterly winds, that vessels, or any other object, that are seen at a distance, appear to be vastly magnified, or 100m, according to the marinier expression, Shaw, Travels, 352.*
itself at sea; but at Monticello it is familiar. There is a solitary mountain about 40 miles off, in the South, whose natural shape, as presented to view there, is a regular cone; but, by the effect of looming, it sometimes subsides almost totally into the horizon; sometimes it rises more acute and more elevated; sometimes it is hemispherical; and sometimes its sides are perpendicular, its top flat, and as broad as its base. In short it assumes at times the most whimsical shapes, and all these perhaps successively in the same morning. The Blue ridge of mountains comes into view, in the North East, at about 100 miles distance, and, approaching in a direct line, passes by within 20 miles, and goes off to the South-west. This phenomenon begins to shew itself on these mountains, at about 50 miles distance, and continues beyond that as far as they are seen. I remark no particular state, either in the weight, moisture, or heat of the atmosphere, necessary to produce this. The only constant circumstances are, its appearance in the morning only, and on objects at least 40 or 50 miles distant. In this latter circumstance, if not in both, it differs from the looming on the water. Refraction will not account for this metamorphosis. That only changes the proportions of length and breadth,
breadth, base and altitude, preserving the general outlines. Thus it may make a circle appear elliptical, raise or depress a cone, but by none of its laws, as yet developed, will it make a circle appear a square, or a cone a sphere.

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**QUERY VIII.**

**The number of its inhabitants?**

The following table shews the number of persons imported for the establishment of our colony in its infant state, and the census of inhabitants at different periods, extracted from our historians and public records, as particularly as I have had opportunities and leisure to examine them. Successive lines in the same year shew successive periods of time in that year. I have stated the census in two different columns, the whole inhabitants having been sometimes numbered, and sometimes the *tythes* only. This term, with us, includes the free males above 16 years of age, and slaves above that age of both sexes. A further examination of our records would render this history of our population much more satisfactory and perfect, by furnishing a greater number of intermediate terms.

Those
Those however which are here stated will enable us to calculate, with a considerable degree of precision, the rate at which we have increased. During the infancy of the colony, while numbers were small, wars, importations, and other accidental circumstances render the progression fluctuating and irregular. By the year 1644, however, it becomes tolerably uniform, having in a great measure ceased from the dissolution of the company, and the inhabitants become too numerous to be sensibly affected by Indian wars.

<table>
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</tr>
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</tr>
<tr>
<td>1648</td>
<td>1000</td>
<td>5000</td>
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</tr>
<tr>
<td>1649</td>
<td>7000</td>
<td>7000</td>
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</tr>
<tr>
<td>1650</td>
<td>22000</td>
<td>22000</td>
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</tr>
<tr>
<td>1651</td>
<td>82,100</td>
<td>82,100</td>
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</tr>
<tr>
<td>1652</td>
<td>105,000</td>
<td>105,000</td>
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</tr>
<tr>
<td>1653</td>
<td>153,000</td>
<td>153,000</td>
<td></td>
</tr>
</tbody>
</table>


*First note:

1756. 173,316 inhabit.
1764. 200,000.
1774. 300,000.

ginnings at that period, therefore, we find that from thence to the year 1772, our tythes had increased from 7209 to 153,000. The whole term being of 118 years, yields a duplication once in every 27\frac{1}{2} years. The intermediate enumerations taken in 1700, 1748, and 1759, furnish proofs of the uniformity of this progression. Should this rate of increase continue, we shall have between six and seven millions of inhabitants within 95 years. If we suppose our country to be bounded, at some future day, by the meridian of the mouth of the Great Kanhaway, (within which it has been before conjectured, are 64,491 square miles) there will then be 100 inhabitants for every square mile, which is nearly the state of population in the British islands.

Here I will beg leave to propose a doubt. The present desire of America is to produce rapid population by as great importations of foreigners as possible. But is this founded in good policy? The advantage proposed is the multiplication of numbers. Now let us suppose (for example only) that, in this state, we could double our numbers in one year by the importation of foreigners; and this is a greater accession than the most sanguine advocate for emigration has a right to expect. Then I say, beginning with a double stock, we
we shall attain any given degree of population only 27 years and 3 months sooner than if we proceed on our single stock. If we propose four millions and a half as a competent population for this state, we should be 54½ years attaining it, could we at once double our numbers; and 81¼ years, if we rely on natural propagation, as may be seen by the following table.

<table>
<thead>
<tr>
<th>Year</th>
<th>Proceeding on our present flock</th>
<th>Proceeding on a double flock</th>
</tr>
</thead>
<tbody>
<tr>
<td>1781</td>
<td>567,614</td>
<td>1,135,228</td>
</tr>
<tr>
<td>1808</td>
<td>1,135,228</td>
<td>2,270,456</td>
</tr>
<tr>
<td>1835</td>
<td>2,270,456</td>
<td>4,540,912</td>
</tr>
<tr>
<td>1862</td>
<td>4,540,912</td>
<td></td>
</tr>
</tbody>
</table>

In the first column are stated periods of 27½ years; in the second are our numbers, at each period, as they will be if we proceed on our actual stock; and in the third are what they would be, at the same periods, were we to set out from the double of our present stock. I have taken the term of four millions and a half of inhabitants for example's sake only. Yet I am persuaded it is a greater number than the country spoken of, considering how much inarable land it contains, can clothe and feed, without a material change in the quality of their diet. But are there no inconveniences to be thrown into the
the scale against the advantage expected from a multiplication of numbers by the importation of foreigners? It is for the happiness of those united in society to harmonize as much as possible in matters which they must of necessity transact together. Civil government being the sole object of forming societies, its administration must be conducted by common consent. Every species of government has its specific principles. Ours perhaps are more peculiar than those of any other in the universe. It is a composition of the freest principles of the English constitution, with others derived from natural right and natural reason. To these nothing can be more opposed than the maxims of absolute monarchies. Yet, from such, we are to expect the greatest number of emigrants. They will bring with them the principles of the governments they leave, imbibed in their early youth; or, if able to throw them off, it will be in exchange for an unbounded licentiousness, passing, as is usual, from one extreme to another. It would be a miracle were they to stop precisely at the point of temperate liberty. These principles, with their language, they will transmit to their children. In proportion to their numbers, they will share with us the legislation. They will infuse into it their
their spirit, warp and bias its direction, and render it a heterogeneous, incoherent, distracted mass. I may appeal to experience, during the present contest, for a verification of these conjectures. But, if they be not certain in event, are they not possible, are they not probable? Is it not safer to wait with patience 27 years and three months longer, for the attainment of any degree of population desired, or expected? May not our government be more homogeneous, more peaceable, more durable? Suppose 20 millions of republican Americans thrown all of a sudden into France, what would be the condition of that kingdom? If it would be more turbulent, less happy, less strong, we may believe that the addition of half a million of foreigners to our present numbers would produce a similar effect here. If they come of themselves, they are entitled to all the rights of citizenship: but I doubt the expediency of inviting them by extraordinary encouragements. I mean not that these doubts should be extended to the importation of useful artificers. The policy of that measure depends on very different considerations. Spare no expense in obtaining them. They will after a while go to the plough and the hoe; but, in the mean time, they will teach us something we do not know. It is not so
in agriculture. The indifferent state of that among us does not proceed from a want of knowledge merely; it is from our having such quantities of land to waste as we please. In Europe the object is to make the most of their land, labour being abundant: here it is to make the most of our labour; land being abundant.

It will be proper to explain how the numbers for the year 1782 have been obtained; as it was not from a perfect census of the inhabitants. It will at the same time develop the proportion between the free inhabitants and slaves. The following return of taxable articles for that year was given in.

53,289 free males above 21 years of age.
211,698 slaves of all ages and sexes.
23,766 not distinguished in the returns, but said to be titheable slaves.
195,439 horses.
609,734 cattle.
5,126 wheels of riding-carriages.
191 taverns.

There were no returns from the 8 counties of Lincoln, Jefferson, Fayette, Monongalia, Yohogania, Ohio, Northampton, and York. To find the number of slaves which should have
have been returned instead of the 23766 titheables, we must mention that some observations on a former census had given reason to believe that the numbers above and below 16 years of age were equal. The double of this number, therefore, to wit, 47532 must be added to 211698, which will give us 259230 slaves of all ages and sexes. To find the number of free inhabitants, we must repeat the observation, that those above and below 16 are nearly equal. But as the number 53289 omits the males between 16 and 21, we must supply them from conjecture. On a former experiment it had appeared that about one-third of our militia, that is, of the males between 16 and 50, were unmarried. Knowing how early marriage takes place here, we shall not be far wrong in supposing that the unmarried part of our militia are those between 16 and 21. If there be young men who do not marry till after 21, there are as many who marry before that age. But as the men above 50 were not included in the militia, we will suppose the unmarried, or those between 16 and 21, to be one-fourth of the whole number above 16, then we have the following calculation:

53289
53,289 free males above 21 years of age.
17,763 free males between 16 and 21.
71,052 free males under 16.
142,104 free females of all ages.

284,208 free inhabitants of all ages.
259,430 slaves of all ages.

543,638 inhabitants, exclusive of the 8 counties from which were no returns. In these 8 counties in the years 1779 and 1780 were 31,161 militia. Say then,
31,161 free males above the age of 16.
3,161 ditto under 16.
6,722 free females.

12,644 free inhabitants in these 8 counties.

To find the number of slaves, say, as 284,208 to 259,230, so is 12,644 to 11,532. Adding the third of these numbers to the first, and the fourth to the second, we have,
256,852 free inhabitants.
270,762 slaves.

567,614 inhabitants of every age, sex, and condition. But 256,852, the number of free inhabitants, are to 270,762, the number of slaves, nearly as 11 to 10. Under the mild treatment our slaves experience, and their wholesome, though coarse, food, this blot in our country increaseth as fast, or faster, than

L
the whites. During the regal government, we had at one time obtained a law, which imposed such a duty on the importation of slaves, as amounted nearly to a prohibition, when one inconsiderate assembly, placed under a peculiarity of circumstance, repealed the law. This repeal met a joyful sanction from the then sovereign, and no devices, to expedients, which could ever after be attempted by subsequent assemblies, and they seldom met without attempting them, could succeed in getting the royal assent to a renewal of the duty. In the very first session held under the republican government, the assembly passed a law for the perpetual prohibition of the importation of slaves. This will in some measure stop the increase of this great political and moral evil, while the minds of our citizens may be ripening for a complete emancipation of human nature.

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**QUERY IX.**

**Military.**

THE number and condition of the militia and regular troops, and their pay?

The following is a state of the militia taken from returns of 1780 and 1781, except in those counties marked with an asterisk, the returns from which are somewhat older.

*The first settlement of Europeans in America was by the Spaniards in S. Domingo in 1493. As early as 1561, we find they had already got into the habit of carrying the negroes there ashore. In 1583, they had become so inconvenient, that Governor the Governor put a stop to their importation. Herrera, Dec. 1, B. 2, ch. 10, B. 2, ch. 8. But in 1591, they were again fully in the same habit. The king’s instructions at that time were: ‘Que se increasen forman como se llevan manchas gros de Guinea, porque era mas util el trabajo de un negro, que los Indios.’ Herrera, Dec. L. g. d. 8, Dec. L. g. 2, B. 2, ch. 8.*
Table:

<table>
<thead>
<tr>
<th>Between the Blue ridge &amp; Tide waters.</th>
<th>Between the Alleghany &amp; Blue ridge.</th>
<th>Westward of the Alleghany.</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>18,528</td>
<td>4449</td>
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<table>
<thead>
<tr>
<th>Counties</th>
<th>Militia</th>
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<tbody>
<tr>
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<td>660</td>
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<tr>
<td>Edgefield</td>
<td>592</td>
</tr>
<tr>
<td>Aiken</td>
<td>329</td>
</tr>
<tr>
<td>Bamberg</td>
<td>329</td>
</tr>
<tr>
<td>CharlestonCounty</td>
<td>250</td>
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<tr>
<td>Sumter</td>
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<td>irts</td>
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<table>
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<tr>
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</thead>
<tbody>
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<td>329</td>
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<td>250</td>
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<tr>
<td>Sumter</td>
<td>190</td>
</tr>
<tr>
<td>irts</td>
<td>150</td>
</tr>
</tbody>
</table>

Table:

<table>
<thead>
<tr>
<th>On the Tide Waters and in that Parallel.</th>
<th>19012</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Shore</td>
<td>1636</td>
</tr>
<tr>
<td>Between Rappahannock &amp; Patowmac.</td>
<td>4137</td>
</tr>
<tr>
<td>Between York &amp; Rappahannock.</td>
<td>3263</td>
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<tr>
<td>Between James &amp; York rivers.</td>
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<td>Between James river and Carolina.</td>
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<table>
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<td>3263</td>
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<tr>
<td>St. John</td>
<td>655</td>
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<tr>
<td>New Kent</td>
<td>2194</td>
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<tr>
<td>New Kent</td>
<td>2194</td>
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<tr>
<td>New Kent</td>
<td>2194</td>
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<td>New Kent</td>
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<tr>
<td>New Kent</td>
<td>2194</td>
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<tr>
<td>New Kent</td>
<td>2194</td>
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Table:

<table>
<thead>
<tr>
<th>Counties</th>
<th>Militia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charleston</td>
<td>250</td>
</tr>
<tr>
<td>Sumter</td>
<td>190</td>
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<tr>
<td>irts</td>
<td>150</td>
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<tr>
<td>Bamberg</td>
<td>329</td>
</tr>
<tr>
<td>Aiken</td>
<td>329</td>
</tr>
<tr>
<td>Edgefield</td>
<td>592</td>
</tr>
<tr>
<td>Augusta</td>
<td>660</td>
</tr>
</tbody>
</table>

[Text not clearly visible due to handwriting]
and other subordinate officers, as in the regular service. In every county is a county-lieutenant, who commands the whole militia of his county, but ranks only as a colonel in the field. We have no general officers always existing. These are appointed occasionally, when an invasion or insurrection happens, and their commission determines with the occasion. The governor is head of the military, as well as civil power. The law requires every militia-man to provide himself with the arms usual in the regular service. But this injunction was always indiscriminately complied with, and the arms they had have been so frequently called for to arm the regulars, that in the lower parts of the country they are entirely disarmed. In the middle country a fourth or fifth part of them may have such firelocks as they had provided to destroy the noxious animals which infest their farms; and on the western side of the Blue ridge they are generally armed with rifles. The pay of our militia, as well as of our regulars, is that of the Continental regulars. The condition of our regulars, of whom we have none but Continentals, and part of a battalion of state troops, is so constantly on the change, that a state of it at this day would not be its state a month hence. It is much the same with the condition.
tion of the other Continental troops, which is well enough known.

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**QUERY X.**

**THE marine?**

Before the present invasion of this state by the British under the command of General Phillips, we had three vessels of 16 guns, one of 14, five small gallies, and two or three armed boats. They were generally so badly manned as seldom to be in condition for service. Since the perfect possession of our rivers assumed by the enemy, I believe we are left with a single armed boat only.

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**QUERY XI.**

**A DESCRIPTION of the Indians Aborigines established in that state?**

When the first effectual settlement of our colony was made, which was in 1607, the country from the sea-coast to the mountains, and from Potowmac to the most southern waters of James river, was occupied by upwards of forty different tribes of Indians. Of these the Powhatans, the Mannahoacs, and Monacans,
Monacans, were the most powerful. Those between the sea-coast and falls of the rivers, were in amity with one another, and attached to the Powhatans as their link of union. Those between the falls of the rivers and the mountains, were divided into two confederacies; the tribes inhabiting the head waters of Patowmac and Rappahanoe being attached to the Mannaboacs; and those on the upper parts of James river to the Monacans. But the Monacans and their friends were in amity with the Mannaboacs and their friends, and waged joint and perpetual war against the Powhatans. We are told that the Powhatans, Mannaboacs, and Monacans, spoke languages so radically different, that interpreters were necessary when they transacted business. Hence we may conjecture, that this was not the case between all the tribes, and probably that each spoke the language of the nation to which it was attached; which we know to have been the case in many particular instances. Very possibly there may have been antiently three different stocks, each of which multiplying in a long course of time, had separated into so many little societies. This practice results from the circumstance of their having never submitted themselves to any laws, any coercive power, any shadow of government. Their only controuls are their manners.
manners, and that moral sense of right and wrong, which, like the sense of tasting and feeling, in every man makes a part of his nature. An offence against these is punished by contempt, by exclusion from society, or, where the case is serious, as that of murder, by the individuals whom it concerns. Imperfect as this species of coercion may seem, crimes are very rare among them: insomuch that were it made a question, whether no law, as among the savage Americans, or too much law, as among the civilized Europeans, submits man to the greatest evil, one who has seen both conditions of existence would pronounce it to be the last: and that the sheep are happier of themselves, than under care of the wolves. It will be said, that great societies cannot exist without government. The Savages therefore break them into small ones.

The territories of the Powhatan confederacy, south of the Patowmac, comprehended about 8000 square miles, 30 tribes, and 2400 warriors. Capt. Smith tells us, that within 60 miles of James town were 5000 people, of whom 1500 were warriors. From this we find the proportion of their warriors to their whole inhabitants, was as 3 to 10. The Powhatan confederacy then would consist of about
about 8000 inhabitants, which was one for every square mile; being about the twentieth part of our present population in the same territory, and the hundredth of that of the British islands.

Besides these, were the Nottoways, living on Nottoway river; the Meherrins and Tutelans on Meherrin river, who were connected with the Indians of Carolina, probably with the Chowanocs.
### North

<table>
<thead>
<tr>
<th>Tribe</th>
<th>Country</th>
<th>Chief Town</th>
<th>Warriors 1607</th>
<th>Warriors 1669</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whonkenties</td>
<td>Fauquier</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tegmaniyas</td>
<td>Culpeper</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ontoponies</td>
<td>Orange</td>
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<tr>
<td>Tauxitianians</td>
<td>Fauquier</td>
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<td>Hadinungas</td>
<td>Culpeper</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
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<table>
<thead>
<tr>
<th>Tribe</th>
<th>Country</th>
<th>Chief Town</th>
<th>Warriors 1607</th>
<th>Warriors 1669</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tauxenents</td>
<td>Fairfax</td>
<td>About General Washington's</td>
<td>40</td>
<td>60</td>
</tr>
<tr>
<td>Patowmekeans</td>
<td>Stafford, King George</td>
<td>Patowmac creek</td>
<td>200</td>
<td>60</td>
</tr>
<tr>
<td>Cuttawomans</td>
<td>King George</td>
<td>About Lamb creek</td>
<td>20</td>
<td>30</td>
</tr>
<tr>
<td>Pifaces</td>
<td>King Geo. Richmond</td>
<td>Above Leeds town</td>
<td>100</td>
<td>40</td>
</tr>
<tr>
<td>Onsunamians</td>
<td>Wilmorland</td>
<td>Nomony river</td>
<td>100</td>
<td>30</td>
</tr>
<tr>
<td>Rappahincons</td>
<td>Richmond county</td>
<td>Rappahonoc creek</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>Moraughtagunds</td>
<td>Lancaster, Richmond</td>
<td>Moratisc river</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Seccaconies</td>
<td>Northumberland</td>
<td>Corotoman</td>
<td>130</td>
<td>70</td>
</tr>
<tr>
<td>Wighcocomicoes</td>
<td>Lancaster</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cattawomans</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Total</strong></td>
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### Monacans

<table>
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<th>Warriors 1607</th>
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</thead>
<tbody>
<tr>
<td>Monacans</td>
<td>James R. above the falls</td>
<td>Fork of James R.</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Monasissapoon</td>
<td>Louisa, Fluanna</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
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### Powhatans

<table>
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<tbody>
<tr>
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<td>Effex, Caroline</td>
<td>Port tobacco creek</td>
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<td>60</td>
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<tr>
<td>Mattapoments</td>
<td>Mattapony river</td>
<td>Romuncok</td>
<td>50</td>
<td>20</td>
</tr>
<tr>
<td>Pamuncky</td>
<td>King William</td>
<td>About Rollew</td>
<td>300</td>
<td>50</td>
</tr>
<tr>
<td>Weroedowomicoes</td>
<td>Gloucester</td>
<td>Turk's Ferry, Grimsby</td>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td>Payankatans</td>
<td>Piankatank river</td>
<td></td>
<td>55</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
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<thead>
<tr>
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<th>Warriors 1607</th>
<th>Warriors 1669</th>
</tr>
</thead>
<tbody>
<tr>
<td>Youghjoungs</td>
<td>Pamunkey river</td>
<td>Orapaks</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>Chickahominy</td>
<td>Chickahominy river</td>
<td>Powhatan, Mayo's</td>
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<td>60</td>
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<td>Powhatans</td>
<td>Henrico</td>
<td>About Arrohatoes</td>
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</tr>
<tr>
<td>Arrowhatoes</td>
<td>Henrico</td>
<td>Weynoke</td>
<td>40</td>
<td>15</td>
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<tr>
<td>Weanoes</td>
<td>Charles city</td>
<td>Sandy point</td>
<td>100</td>
<td>15</td>
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<tr>
<td>Paipahoes</td>
<td>Charles city, James city</td>
<td>Chikliac</td>
<td>40</td>
<td>15</td>
</tr>
<tr>
<td>Mohicans</td>
<td>York</td>
<td></td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>Kecoughitanes</td>
<td>Elizabeth city</td>
<td></td>
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<td><strong>Total</strong></td>
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<thead>
<tr>
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<th>Warriors 1669</th>
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</thead>
<tbody>
<tr>
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<td>Bermuda hundred</td>
<td>60</td>
<td>50</td>
</tr>
<tr>
<td>Qisiconobans</td>
<td>About Upper Chipoak</td>
<td>Warrafaucan</td>
<td>25</td>
<td>3 Pohies</td>
</tr>
<tr>
<td>Warracogks</td>
<td>Isle of Wight</td>
<td>About the mouth of Well branch</td>
<td>200</td>
<td>45</td>
</tr>
<tr>
<td>Nanfammonds</td>
<td>Nanfomond</td>
<td>About Lynhaven river</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Chefespaks</td>
<td>Princes Anne</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accoheanos</td>
<td>Accom. Northampton</td>
<td>Accoheanc river</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>Accomaces</td>
<td>Northampton</td>
<td>About Cheriton's</td>
<td>80</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** The table above is a historical record of Native American tribes in the region, listing tribes, their lands, and their chief towns. The number of warriors is also provided. The tribes are categorized into North and South, with the latter being specifically southern tribes. The table is part of a larger document that likely includes additional cultural and historical information about these tribes. The table is designed to be placed between pages 152 and 153, indicating its importance in the overall context of the document.
The preceding table contains a state of these several tribes, according to their confederacies and geographical situation, with their numbers when we first became acquainted with them, where these numbers are known. The numbers of some of them are again stated as they were in the year 1669, when an attempt was made by the assembly to enumerate them. Probably the enumeration is imperfect, and in some measure conjectural, and that a further search into the records would furnish many more particulars. What would be the melancholy sequel of their history, may however be augured from the census of 1669; by which we discover that the tribes therein enumerated were, in the space of 62 years, reduced to about one-third of their former numbers. Spirituous liquors, the small-pox, war, and an abridgment of territory, to a people who lived principally on the spontaneous productions of nature, had committed terrible havoc among them, which generation, under the obstacles opposed to it among them, was not likely to make good. That the lands of this country were taken from them by conquest, is not so general a truth as is supposed. I find in our historians and records, repeated proofs of purchase, which cover a considerable part of the lower country; and many more
more would doubtless be found on further search. The upper country we know has been acquired altogether by purchases made in the most unexceptionable form.

Westward of all these tribes, beyond the mountains, and extending to the great lakes, were the Massawomees, a most powerful confederacy, who harassed unremittingly the Powhatans and Manahoacs. These were probably the ancestors of the tribes known at present by the name of the Six Nations.

Very little can now be discovered of the subsequent history of these tribes severally. The Chickabominies removed, about the year 1661, to Mattapony river. Their chief, with one from each of the tribes of the Pamunkies and Mattaponies, attended the treaty of Albany in 1685. This seems to have been the last chapter in their history. They retained however their separate name so late as 1705 and were at length blended with the Pamunkies and Mattaponies, and exist at present only under their names. There remain of the Mattaponies three or four men only, and they have more negro than Indian blood in them. They have lost their language, have reduced themselves, by voluntary sales, to about fifty acres of land, which lie on the river of their own name, and have, from time to time, been joining the Pamunkies, from whom
whom they are distant but 10 miles. The Pamunkies are reduced to about 10 or 12 men, tolerably pure from mixture with other colours. The older ones among them preserve their language in a small degree, which are the last vestiges on earth, as far as we know, of the Powhatan language. They have about 300 acres of very fertile land, on Pamunkey river, so encompassed by water that a gate shuts in the whole. Of the Nottoways, not a male is left. A few women constitute the remains of that tribe. They are seated on Nottoway river, in Southampton county, on very fertile lands. At a very early period, certain lands were marked out and appropriated to these tribes, and were kept from encroachment by the authority of the laws. They have usually had trustees appointed, whose duty was to watch over their interests, and guard them from insult and injury.

The Monacans and their friends, better known latterly by the name of Tuscaroras, were probably connected with the Massawomacs, or Five Nations. For though we are told their languages were so different that the intervention of interpreters was necessary between them, yet do we also learn that the Erigas, a nation formerly inhabiting

* Smith.

† Evans.
on the Ohio, were of the same original stock with the Five Nations, and that they partook also of the Tuscarora language. Their dialects might, by long separation, have become so unlike as to be unintelligible to one another. We know that in 1712, the Five Nations received the Tuscaroras into their confederacy, and made them the Sixth Nation. They received the Meherrins and Tuscarora also into their protection: and it is most probable, that the remains of many other of the tribes, of whom we find no particular account, retired westwardly in like manner, and were incorporated with one or other of the western tribes. (5)

I know of no such thing existing as an Indian monument: for I would not honour with that name arrow points, stone hatchets, stone pipes, and half-shapen images. Of labour on the large scale, I think there is no remain as respectable as would be a common ditch for the draining of lands: unless indeed it be the Barrows, of which many are to be found all over this country. These are of different sizes, some of them constructed of earth, and some of loose stones. That they were repositories of the dead, has been obvious to all: but on what particular occasion constructed, was matter of doubt. Some have thought they covered the bones of those who have
have fallen in battles fought on the spot of interment. Some ascribed them to the custom, said to prevail among the Indians, of collecting, at certain periods, the bones of all their dead, wherefoever deposited at the time of death. Others again supposed them the general sepulchres for towns, conjectured to have been on or near these grounds; and this opinion was supported by the quality of the lands in which they are found, (those constructed of earth being generally in the softest and most fertile meadow-grounds on river sides) and by a tradition, said to be handed down from the Aboriginal Indians, that, when they settled in a town, the first person who died was placed erect, and earth put about him, so as to cover and support him; that, when another died, a narrow passage was dug to the first, the second reclined against him, and the cover of earth replaced, and so on. There being one of these in my neighbourhood, I wished to satisfy myself whether any, and which of these opinions were just. For this purpose I determined to open and examine it thoroughly. It was situated on the low grounds of the Rivanna, about two miles above its principal fork, and opposite to some hills, on which had been an Indian town. It was of a spheroidal form, of about 40 feet diameter at the base,
and had been of about twelve feet altitude, though now reduced by the plough to seven and a half, having been under cultivation about a dozen years. Before this it was covered with trees of twelve inches diameter, and round the base was an excavation of five feet depth and width, from whence the earth had been taken of which the hilllock was formed. I first dug superficially in several parts of it, and came to collections of human bones, at different depths, from six inches to three feet below the surface. These were lying in the utmost confusion, some vertical, some oblique, some horizontal, and directed to every point of the compass, entangled, and held together in clusters by the earth. Bones of the most distant parts were found together, as, for instance, the small bones of the foot in the hollow of a scull, many sculls would sometimes be in contact, lying on the face, on the side, on the back, top or bottom, so as, on the whole, to give the idea of bones emptied promiscuously from a bag or basket, and covered over with earth, without any attention to their order. The bones of which the greatest numbers remained, were sculls, jaw-bones, teeth, the bones of the arms, thighs, legs, feet, and hands. A few ribs remained, some vertebrae of the neck and spine, without their processes, and one
one instance only of the bone which serves as a base to the vertebral column. The sculls were so tender, that they generally fell to pieces on being touched. The other bones were stronger. There were some teeth which were judged to be smaller than those of an adult; a scull, which, on a slight view, appeared to be that of an infant, but it fell to pieces on being taken out, so as to prevent satisfactory examination; a rib, and a fragment of the under-jaw of a person about half grown; another rib of an infant; and part of the jaw of a child, which had not yet cut its teeth. This last furnishing the most decisive proof of the burial of children here, I was particular in my attention to it. It was part of the right half of the under-jaw. The processes, by which it was articulated to the temporal bones, were entire, and the bone itself firm to where it had been broken off, which, as nearly as I could judge, was about the place of the eye-tooth. Its upper edge, wherein would have been the sockets of the teeth, was perfectly smooth. Measuring it with that of an adult, by placing their hinder processes together, its broken end extended to the penultimate grinder of the adult. This bone was white, all the others of a sand colour. The bones of infants being

* The os sacrum.
soft, they probably decay sooner, which might be the cause so few were found here. I proceeded then to make a perpendicular cut through the body of the barrow, that I might examine its internal structure. This passed about three feet from its center, was opened to the former surface of the earth, and was wide enough for a man to walk through and examine its sides. At the bottom, that is, on the level of the circumjacent plain, I found bones; above these a few stones, brought from a cliff a quarter of a mile off, and from the river one-eighth of a mile off; then a large interval of earth, then a stratum of bones, and so on. At one end of the section were four strata of bones plainly distinguishable; at the other, three; the strata in one part not ranging with those in another. The bones nearest the surface were least decayed. No holes were discovered in any of them, as if made with bullets, arrows, or other weapons. I conjectured that in this barrow might have been a thousand skeletons. Every one will readily seize the circumstances above related, which militate against the opinion, that it covered the bones only of persons fallen in battle; and against the tradition also, which would make it the common sepulchre of a town, in which the bodies were placed upright, and touching each other.

Appearances
Appearances certainly indicate that it has derived both origin and growth from the accustomary collection of bones, and depositions of them together; that the first collection had been deposited on the common surface of the earth, a few stones put over it, and then a covering of earth, that the second had been laid on this, had covered more or less of it in proportion to the number of bones, and was then also covered with earth; and so on. The following are the particular circumstances which give it this aspect. 1. The number of bones. 2. Their confused position. 3. Their being in different strata. 4. The strata in one part having no correspondence with those in another. 5. The different states of decay in these strata, which seem to indicate a difference in the time of inhumation. 6. The existence of infant bones among them.*

But on whatever occasion they may have been made, they are of considerable notoriety among the Indians: for a party passing, about thirty years ago, through the part of the country where this barrow is, went through the woods directly to it, without any instructions or enquiry, and having stayed about it some time, with expressions which were construed to be those of sorrow, they returned to the high road, which they had left.

*The custom of burying the dead in barrows was anciently very prevalent. Homer describes the ceremony of raising one by the Greeks.

Ἀφικά σαρκοφάγους ἐπὶ τούτοις ἠθέλετο Ἰππόβος Χριστός Ἀρκάδων ἔτης στροφῆς ἄρχοντας,
Ἀκόνθος ἐπὶ τρόενθε ἔρχεται, ὅποιο πάλαι ἐρχομένως ἦν.
Σᾶς ἄι να τηρεῖτε καὶ τορούντες αὐτάσιν ἔχον
Ταῖς νυν νυκτερινές, ἐξ ἑαυτοῦ μακεδόν ἐγείροντες. Ὑδρα. 28, 84.

and Herodotus 7. 175 mentions an instance of the same practice in the army of Darius on the death of Artaxes.
left about half a dozen miles to pay this visit, and pursued their journey. There is another barrow, much resembling this in the low grounds of the South branch of Shenandoah, where it is crossed by the road leading from the Rockfish gap to Staunton. Both of these have, within these dozen years, been cleared of their trees and put under cultivation, are much reduced in their height, and spread in width, by the plough, and will probably disappear in time. There is another on a hill in the Blue ridge of mountains, a few miles North of Wood's gap, which is made up of small stones thrown together. This has been opened and found to contain human bones, as the others do. There are also many others in other parts of the country.

Great question has arisen from whence came those aboriginal inhabitants of America? Discoveries, long ago made, were insufficient to shew that a passage from Europe to America was always practicable, even to the imperfect navigation of ancient times. In going from Norway to Iceland, from Iceland to Groenland, from Groenland to Labrador, the first traject is the widest; and this having been practised from the earliest times of which we have any account of that part of the earth, it is not difficult to sup-
In the Notes on Virgil, the great diversity of languages appearing radically different, which are spoke by the savages of America, is considered as sufficient to authorize a supposition that they have not been their country longer than their settlement is more remote than that of Asia. By it’s not inhabited, but it must be confessed that the mind finds it difficult to conceive that so many tribes have inhabited it from to remote an antiquity as would be necessary to have divided into languages so radically different. I will therefore hazard a conjecture, as such, and only to be estimated at what it may be worth. it is known that the Indians consider it a dishonor to use any language but their own, hence in their councils with us, though some of them may have been in situations which from convenience or necessity have obliged them to learn our language well, yet they refuse to converse in it; Valckwyck, by insisting on the intervention of an interpreter, the other Indians neither language so well as themselves. If this fact is as general as our knowledge of the tribes of N. America shows, therefore a fraction of a tribe from domestic causes has broken off from it’s main body, to another to which it is held by no law or compact, it has gone to another settlement, may it not be the point of honor will them to change not to use the language of those from whom they have quarreled, but to have one of their own. They have use but for one word or phrase. It requires but few, it would require but a small effort of the mind to invent these and to acquire the habit of using them; perhaps this hypothesis presents less difficulty than that of so many radically distinct languages preserved by such handfuls of men from an antiquity so remote that no data we possess will enable us to calculate it.
pose that the subsequent trajects may have been sometimes passed. Again, the late discoveries of Captain Cook, coasting from Kamchatka to California, have proved that, if the two continents of Asia and America be separated at all, it is only by a narrow strait. So that from this side also, inhabitants may have passed into America: and the resemblance between the Indians of America and the Eastern inhabitants of Asia, would induce us to conjecture, that the former are the descendants of the latter, or the latter of the former: excepting indeed the Esquimaux, who, from the same circumstance of resemblance, and from identity of language, must be derived from the Groenlanders, and therefore probably from some of the northern parts of the old continent. A knowledge of their several languages would be the most certain evidence of their derivation which could be produced. In fact, it is the best proof of the affinity of nations which ever can be referred to. How many ages have elapsed since the English, the Dutch, the Germans, the Swiss, the Norwegians, Danes and Swedes have separated from their common stock? Yet how many more must elapse before the proofs of their common origin, which exist in their several languages, will disappear? It is to be lamented then, very much to be lamented, that
that we have suffered so many of the Indian tribes already to extinguish, without our having previously collected and deposited in the records of literature, the general rudiments at least of the languages they spoke.

Were vocabularies formed of all the languages spoken in North and South America, preserving their appellations of the most common objects in nature, of those which must be present to every nation barbarous or civilized, with the inflections of their nouns and verbs, their principles of regimen and concord, and these deposited in all the public libraries, it would furnish opportunities to those skilled in the languages of the old world to compare them with these, now, or at any future time, and hence to construct the best evidence of the derivation of this part of the human race.

But imperfect as is our knowledge of the tongues spoken in America, it suffices to discover the following remarkable fact: Arranging them under the radical ones to which they may be palpably traced, and doing the same by those of the red men of Asia, there will be found probably twenty in America, for one in Asia, of those radical languages, so called because, if they were ever the same, they have lost all resemblance to one another. A separation into dialects may
may be the work of a few ages only, but for two dialects to recede from one another till they have lost all vestiges of their common origin, must require an immense course of time; perhaps not less than many people give to the age of the earth. A greater number of those radical changes of language having taken place among the red men of America, proves them of greater antiquity than those of Asia.

It will be seen that in several instances of these vocabularies there is a remarkable resemblance in the numbers when there is not a trace of it in the other parts of the language. When a tribe has gone farther than its neighbors in inventing a system of notation, the obvious Habitat of this will occasion it to be immediately adopted by the surrounding tribes with only such modifications of the sounds as may accommodate them to the habitual pronunciations of their own language.

cent to, the United States, whose names and numbers have come to my notice. These are taken from four different lists, the first of which was given in the year 1759 to General Stanwix by George Croghan, Deputy agent for Indian affairs under Sir William Johnson; the second was drawn up by a French trader of considerable note, resident among the Indians many years, and annexed to Colonel Bouquet's printed account of his expedition in 1764. The third was made out
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two dialects to recede from one another till
they have lost all vestiges of their common
origin, must require an immense course of
time; perhaps not less than many people
give to the age of the earth. A greater
number of those radical changes of language
having taken place among the red men of
America, proves them of greater antiquity
than those of Asia.

I will now proceed to state the nations and
numbers of the Aborigines which still exist
in a respectable and independent form. And
as their undefined boundaries would render it
difficult to specify those only which may be
within any certain limits, and it may not be
unacceptable to present a more general view
of them, I will reduce within the form of a
Catalogue all those within, and circumja-
cent to, the United States, whose names and
numbers have come to my notice. These
are taken from four different lists, the first of
which was given in the year 1759 to Ge-
neral Stanwix by George Croghan, Deputy
agent for Indian affairs under Sir William
Johnson; the second was drawn up by a
French trader of considerable note, resident
among the Indians many years, and annexed
to Colonel Bouquet's printed account of his
expedition in 1764. The third was made
out by Captain Hutchins, who visited most of the tribes, by order, for the purpose of learning their numbers in 1768. And the fourth by John Dodge, an Indian trader, in 1779, except the numbers marked*, which are from other information.
<table>
<thead>
<tr>
<th>TRIBES</th>
<th>At Sagagachy, on the river St. Lawrence</th>
<th>Near Montreal</th>
<th>Near Trois Rivieres</th>
<th>Near Trois Rivieres</th>
<th>River St. Lawrence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ojibways</td>
<td>100</td>
<td>300</td>
<td>100</td>
<td>150</td>
<td>100</td>
</tr>
<tr>
<td>Conneledegoes</td>
<td>200</td>
<td>350</td>
<td>700</td>
<td>400</td>
<td>300</td>
</tr>
<tr>
<td>Oreniagwas</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abenakis</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mehianes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chiais</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nipidues</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algonkins</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Round heads</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meffagues</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Croghan, 1759</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hitchings, 1768</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bouquet, 1764</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Northward and Westward of the United States:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

M 4
<table>
<thead>
<tr>
<th>Tribe</th>
<th>Where they reside.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Athabases</td>
<td>Lake Athabassa</td>
</tr>
<tr>
<td>Sioux</td>
<td>On the head of the Mississippi and westward of that river</td>
</tr>
<tr>
<td>Piankeshaws</td>
<td>North of the Missoury</td>
</tr>
<tr>
<td>Sac</td>
<td>South of the Missoury</td>
</tr>
<tr>
<td>Miamis</td>
<td>On the river Missoury</td>
</tr>
<tr>
<td>Miskiminis</td>
<td>South of the Missoury</td>
</tr>
<tr>
<td>Altamisas</td>
<td>On the river Arkansas</td>
</tr>
<tr>
<td>Affinis, or Barbas</td>
<td>East of the Alleghenies</td>
</tr>
</tbody>
</table>

Tribes:
- Affinis, or Barbas
- Sioux
- Piankeshaws
- Sac
- Miamis
- Miskiminis
- Altamisas

Northward and westward of the United States.
<table>
<thead>
<tr>
<th>Tribe</th>
<th>Where they reside.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mohocks</td>
<td>East side of Onondaga, L. near the head branches, and on the waters of Susquehanna.</td>
</tr>
<tr>
<td>Túcaroras</td>
<td>Near Onondaga, L. near the head branches, and on the waters of Susquehanna.</td>
</tr>
<tr>
<td>Cayugas</td>
<td>On the Cayuga L. near the N. branch of Susquehanna.</td>
</tr>
<tr>
<td>Sêchenas</td>
<td>East branch of Susquehanna.</td>
</tr>
<tr>
<td>Aughquagah</td>
<td>At Diahago, and other villages of Susquehanna.</td>
</tr>
<tr>
<td>Nanticoes</td>
<td>At Diahago, and other villages of Susquehanna.</td>
</tr>
<tr>
<td>Mohicens</td>
<td>N. branch of Susquehanna.</td>
</tr>
<tr>
<td>Conones</td>
<td>In the same parts.</td>
</tr>
<tr>
<td>Saponies</td>
<td>At Diahago, and other villages of Susquehanna.</td>
</tr>
<tr>
<td>Mündes</td>
<td>In the same parts.</td>
</tr>
</tbody>
</table>

Within the Limits of the United States.
<table>
<thead>
<tr>
<th>TRIBES, or Linneiennes</th>
<th>Where they reside.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delaware, Schuylkill</td>
<td>At the mouth of the Delaware.</td>
</tr>
<tr>
<td>Shawnees</td>
<td>Near Sandiac.</td>
</tr>
<tr>
<td>Miami</td>
<td>Near Fort St. Joseph's and Detroit.</td>
</tr>
<tr>
<td>Wyandot</td>
<td>On the banks of the Wabash, near Fort Ontario.</td>
</tr>
<tr>
<td>Miami</td>
<td>On the banks of the Wabash, near Fort Ontario.</td>
</tr>
<tr>
<td>Mohican</td>
<td>On the banks of the Wabash, near Fort Ontario.</td>
</tr>
<tr>
<td>Illinois</td>
<td>On the banks of the Wabash, near Fort Ontario.</td>
</tr>
<tr>
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</tr>
</tbody>
</table>

Within the Limits of the United States.
<table>
<thead>
<tr>
<th>Tribe</th>
<th>Croghan 1759</th>
<th>Bouquet 1764</th>
<th>Hutchins 1768</th>
<th>Dodge 1779</th>
<th>Where they reside</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kasaskaikas</td>
<td></td>
<td>600</td>
<td>300</td>
<td></td>
<td>Near Kasaskaikia.</td>
</tr>
<tr>
<td>Illinois</td>
<td>400</td>
<td>800</td>
<td>300</td>
<td></td>
<td>Near Cahokia. Qg. If not the same with the Mitchigamis?</td>
</tr>
<tr>
<td>Piorias</td>
<td></td>
<td>300</td>
<td></td>
<td>450</td>
<td>On the Illinois R. called Pianrias, but supposed to mean Piorias.</td>
</tr>
<tr>
<td>Poutecotamies</td>
<td></td>
<td>350</td>
<td></td>
<td>300</td>
<td>Near St. Joseph's and Fort Detroit.</td>
</tr>
<tr>
<td>Ottawas</td>
<td></td>
<td></td>
<td>550</td>
<td></td>
<td>On Sagunam bay of Lake Huron.</td>
</tr>
<tr>
<td>Chippawas</td>
<td></td>
<td></td>
<td></td>
<td>200</td>
<td>On Sagunam bay of Lake Huron.</td>
</tr>
<tr>
<td>Ottawas</td>
<td></td>
<td></td>
<td></td>
<td>400</td>
<td>Near Michillimakina,</td>
</tr>
<tr>
<td>Chippawas</td>
<td></td>
<td></td>
<td></td>
<td>250</td>
<td>Near Michillimakina.</td>
</tr>
<tr>
<td>Chippawas</td>
<td>2000</td>
<td>5900</td>
<td></td>
<td>5450</td>
<td>Near Fort St. Mary's on Lake Superior.</td>
</tr>
<tr>
<td>Chippawas</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Several other villages along the banks of Lake Superior. Numbers unknown.</td>
</tr>
<tr>
<td>Chippawas</td>
<td>200</td>
<td>400</td>
<td>550</td>
<td></td>
<td>Near Puans bay, on Lake Michigan.</td>
</tr>
<tr>
<td>Shakes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Near Puans bay, on Lake Michigan.</td>
</tr>
<tr>
<td>Mynnamicns</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Near Puans bay, on Lake Michigan.</td>
</tr>
<tr>
<td>Ouisconings</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Ouisconings River.</td>
</tr>
<tr>
<td>TRIBES</td>
<td>Where they reside.</td>
<td>On Lake Michigan, and between that and the Mississippi.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>--------------------</td>
<td>--------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kickapoos</td>
<td>On the Eastern heads of Mississippi, and the Islands of Lake Superior.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orgeouis</td>
<td>Western parts of North Carolina.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Micmacs</td>
<td>On the Catawba R. in S. Carolina.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Micmacs</td>
<td>Western parts of Georgia.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sioux</td>
<td>Western parts of Georgia.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Creeks</td>
<td>Alabama R. in the Western parts of Georgia.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Foxes</td>
<td>300</td>
<td>250</td>
</tr>
<tr>
<td>Chickens</td>
<td>4000</td>
<td>500</td>
</tr>
<tr>
<td>Chickens</td>
<td>3000</td>
<td>2500</td>
</tr>
<tr>
<td>Chickens</td>
<td>100</td>
<td>1100</td>
</tr>
<tr>
<td>Chickens</td>
<td>1500</td>
<td>2000</td>
</tr>
<tr>
<td>Chickens</td>
<td>1180</td>
<td>1100</td>
</tr>
<tr>
<td>Chickens</td>
<td>600</td>
<td>500</td>
</tr>
</tbody>
</table>

Within the limits of the United States.
The following tribes are also mentioned:

Lezar — 400 { From the mouth of Ohio to the mouth of Wabash.

Weavings — 200 { On the Mississippi below the Shakies.

Ousaloys, Grand Tuc { 4000 { On White creek, a branch of the Mississippi.

Linways — 1000 { On the Mississippi.

Les Puans — 700 Near Puans bay.

Folle avoine — 350 Near Puans bay.

Ouanakina — 350

Chikanonsou — 350 Conjectured to be tribes of the creeks.

Macheous — 800

Soukilas — 200

Mineamis — 2000 { North-west of L. Michigan, to the heads of Mississippi and up to L. Superior.

Pilankilhas

Mascoutins — 800 On and near the Wabash, towards the Illinois.

Vermillions

But, apprehending these might be different appellations for some of the tribes already enumerated, I have not inserted them in the table, but state them separately as worthy of further inquiry. The variations observable in numbering the same tribe may sometimes be ascribed to imperfect information, and sometimes to a greater or less comprehension of settlements under the same name. (7)
QUERY XII.

A NOTICE of the counties, cities, townships, and villages?

The counties have been enumerated under Query IX. They are 74 in number, of very unequal size and population. Of these 35 are on the tide waters, or in that parallel; 23 are in the Midlands, between the tide waters and Blue ridge of mountains; 8 between the Blue ridge and Alleghaney; and 8 westward of the Alleghaney.

The state, by another division, is formed into parishes, many of which are commensurate with the counties: but sometimes a county comprehends more than one parish, and sometimes a parish more than one county.

This division had relation to the religion of the state; a Parson of the Anglican church, with a fixed salary, having been heretofore established in each parish. The care of the poor was another object of the parochial division.

We have no townships. Our country, being much intersected with navigable waters, and trade brought generally to our doors, instead of our being obliged to go in quest of it, has probably been one of the causes why we have no towns of any consequence.
quence. Williamsburgh, which, till the year 1780, was the seat of our government, never contained above 1800 inhabitants; and Norfolk, the most populous town we ever had, contained but 6000. Our towns, but more properly our villages or hamlets, are as follows.

On James river and its waters, Norfolk, Portsmouth, Hampton, Suffolk, Smithfield, Williamsburgh, Petersburg, Richmond the seat of our government, Manchester, Charlotteville, New London.

On York river and its waters, York, Newcastle, Hanover.

On Rappahannoc, Urbanna, Portroyal, Fredericksburg, Falmouth.


On Ohio, Louisville.

There are other places at which, like some of the foregoing, the laws have said there shall be towns; but Nature has said there shall not, and they remain unworthy of enumeration. Norfolk will probably be the emporium for all the trade of the Chesapeake bay and its waters; and a canal of 8 or 10 miles will bring to it all that of Albemarle sound and its waters. Secondary to this place, are the towns at the head of the
the tidewaters, to wit, Petersburg on Appomattox, Richmond on James river, New-
castle on York river, Alexandria on Patow-
mac, and Baltimore on the Patapsco. From
these the distribution will be to subordinate
situations in the country. Accidental cir-
cumstances however may controul the indica-
tions of nature, and in no instances do
they do it more frequently than in the rise
and fall of towns.

QUERY XIII.

The constitution of the state, and its
several charters?

Queen Elizabeth by her letters-patent,
bearing date March 25, 1584, licensed Sir
Walter Raleigh to search for remote heathen
lands, not inhabited by Christian people,
and granted to him, in fee simple, all the
soil within 200 leagues of the places where
his people should, within 6 years, make
their dwellings or abidings; reserving only,
to herself and her successors, their allegiance
and one fifth part of all the gold and silver
core they should obtain. Sir Walter imme-
diately sent out two ships which visited
Woccon island in North Carolina, and the
next
next year dispatched seven with 107 men, who sailed on Roanoke Island, about lati-
years, excepting the fifth part of the gold and silver ore to be obtained; and stipulated with them, and the other assistants, then in Virginia, that he would confirm the deed of incorporation which he had given in 1587, with all the prerogatives, jurisdictions, royalties and privileges granted to him by the Queen. Sir Walter, at different times, sent five other adventures hither, the last of which was in 1602: for in 1603 he was attainted, and put into close imprisonment, which put an end to his cares over his infant colony. What was the particular fate of the colonists he had before sent and seated, has never been known: whether they were murdered, or incorporated with the savages.

Some gentlemen and merchants, supposing that by the attainder of Sir Walter Raleigh the grant to him was forfeited, not enquiring over carefully whether the sentence of an English court could affect land not within the jurisdiction of that court, petitioned king James for a new grant of Virginia to them. He accordingly executed a grant to Sir Thomas Gates and others, bearing date the 9th of March 1607, under which, in the same year a settlement was effected at James-town and ever after maintained. Of this grant however no particular
cular notice need be taken, as it was super-
seeded by letters-patent of the same king, of
May 23, 1609, to the Earl of Salisbury
and others, incorporating them by the name of
the Treasurer and Company of adventurers
and planters of the City of London for
the first colony in Virginia,' granting to
them and their successors all the lands in
Virginia from Point Comfort along the sea
cost to the northward 200 miles, and from
the same point along the sea coast to the
southward 200 miles, and all the space from
this precinct on the sea coast up into the
land, West and North-west, from sea to
sea, and the islands within one hundred miles
of it, with all the commodities, jurisdictions,
royalties, privileges, franchises and pre-emi-
ncines within the same, and thereto and
thereabouts, by sea and land, appertaining,
in as ample manner as had before been
granted to any adventurer: to be held of
the king and his successors, in common fo-
cage, yielding one fifth part of the gold and
silver ore to be therein found, for all man-
ner of services; establishing a council in
England for the direction of the enterprise,
the members of which were to be chosen
and displaced by the voice of the majority
of the company and adventurers, and were
to have the nomination and revocation of
N a

-
governors, officers, and ministers, which by them should be thought needful for the colony; the power of establishing laws and forms of government and magistracy, obligatory not only within the colony, but also on the seas in going and coming to and from it; authorizing them to carry thither any persons who should consent to go, freeing them for ever from all taxes and impositions on any goods or merchandise on importation into the colony, or exportation out of it, except the five per cent. due for custom on all goods imported into the British dominions, according to the ancient trade of merchants; which five per cent. only being paid, they might, within 13 months, re-export the same goods into foreign parts, without any custom, tax, or other duty, to the king or any his officers or deputies: with powers of waging war against those who should annoy them: giving to the inhabitants of the colony all the rights of natural subjects, as if born and abiding in England; and declaring that these letters should be construed, in all doubtful parts, in such manner as should be most for the benefit of the grantees.

Afterwards, on the 12th of March 1612, by other letters-patent, the king added to his former grants, all islands in any part of the ocean between the 30th and 41st degrees of latitude,
latitude, and within 300 leagues of any of the parts before granted to the Treasurer and company, not being possessed or inhabited by any other Christian prince or state, nor within the limits of the northern colony.

In pursuance of the authorities given to the company by those charters, and more especially of that part in the charter of 1609, which authorised them to establish a form of government, they on the 24th of July 1621, by charter under their common seal, declared that from thenceforward there should be two supreme councils in Virginia, the one to be called the council of State, to be placed and displaced by the treasurer, council in England, and company, from time to time, whose office was to be that of advising and assisting the governor; the other to be called the general assembly, to be convened by the governor once yearly or oftener, which was to consist of the council of State, and two burgesses out of every town, hundred, or plantation, to be respectively chosen by the inhabitants. In this all matters were to be decided by the greater part of the votes present; referring to the governor a negative voice; and they were to have power to treat, consult, and conclude all emergent occasions concerning the public weal, and to make laws for the behoof and government.
ment of the colony, imitating and following the laws and policy of England as nearly as might be; providing that these laws should have no force till ratified in a general quarter court of the company in England, and returned under their common seal, and declaring that, after the government of the colony should be well framed and settled, no orders of the council in England should bind the colony unless ratified in the said general assembly. The king and company quarrelled, and, by a mixture of law and force, the latter were out of all their rights, without retribution, after having expended 100,000l. in establishing the colony, without the smallest aid from government. King James suspended their powers by proclamation of July 15, 1624, and Charles I. took the government into his own hands. Both sides had their partisans in the colony: but in truth the people of the colony in general thought themselves little concerned in the dispute. There being three parties interested in these several charters, what passed between the first and second it was thought could not affect the third. If the king seized on the powers of the company, they only passed into other hands, without increase or diminution, while the rights of the people remained as they were. But they did not remain
remain so long. The northern parts of their country were granted away to the Lords Baltimore and Fairfax, the first of these obtaining also the rights of separate jurisdiction and government. And in 1650 the parliament, considering itself as standing in the place of their deposed king, and as having succeeded to all his powers, without as well as within the realm, began to assume a right over the colonies, passing an act for inhibiting their trade with foreign nations. This succession to the exercise of the kingly authority gave the first colour for parliamentary interference with the colonies, and produced that fatal precedent which they continued to follow after they had retired, in other respects, within their proper functions. When this colony, therefore, which still maintained its opposition to Cromwell and the parliament, was induced in 1651 to lay down their arms, they previously secured their most essential rights, by a solemn convention, which having never seen in print, I will here insert literally from the records.

ARTICLES agreed on & concluded at James Cittie in Virginia for the surrendering and settling of that plantation under obedience & government of the common wealth of England by the Commissioners of the Counciull of State by authoritie of the
the parliamt. of England & by the Grand assembly of the Governour, Councill & Burgesses of that countrey.

1st. it is agreed and confed that the plantation of Virginia, and all the inhabitants thereof shall be and remaine in due obedience and subjection to the Comon wealth of England, according to laws there established, and that this submission and subscription bee acknowledged a voluntary act not forced nor constrained by a conquest upon the countrey, and that they shall have & enjoy such freedoms and priviledges as belong to the free borne people of England, and that the former government by the Commissions and Instructions be void and null.

2ly. Secondly that the Grand assembly as formerly shall convene & transact the affairs of Virginia wherein nothing is to be acted or done contrarie to the government of the Comon wealth of England & the laws there established.

3ly. That there shall be a full & total remission and indemnity of all acts, words, or writeings done or spoken against the parliament of England in relation to the same.

4ly. That Virginia shall have & enjoy antient bounds and Lymitts granted by the
the charters of the former kings, and that
we shall seek a new charter from the par-
lament to that purpose against any that
have intrencht upon ound rights thereof.
3ly, That all the pattents of land granted
under the collony seale by any of the pre-
cedent governours shall be & remaine in
their full force & strength.
6ly, That the priviledge of having fif-
tie acres of land for every person trans-
ported in that collonie shall continue as
formerly granted.
7ly, That people of Virginia have free
trade as people of England do enjoy to all
places and with all nations according to
lawes of that common wealth, and that
Virginia shall enjoy all priviledges equall
with any English plantations in America.
8ly, That Virginia shall be free from all
taxes, customs & impositions whatsoever,
& none to be imposed on them without
consent of the Grand assembly, And doe
that neither fortes nor castles bee erected
or garrisons maintained without their con-
sent.
9ly, That noe charge shall be required
from this country in respect of this pre-
sent sleet.
10ly, That for the future settlement of
the countrey in their due obedience, the
Engagement
Engagement shall be tendered to all such inhabitants according to act of parliament made to that purpose, that all persons who shall refuse to subscribe the said engagement shall have a yeare's time if they please to remove themselves & their estates out of Virginia, and in the mean time during the said yeare to have equal justice as formerly.

11ly. That the use of the booke of common prayer shall be permitted for one yeare ensuinge with referrence to the content of that government. That government be not used publiquely, and the continuance of ministers in their places, they not misdemeanning themselves, and the payment of their accustomed dues and agreements made with them respectively shall be left as they now stand during this ensuing yeare.

12ly. That no man's cattell shall be questioned as such companies unless such as have been entrusted with them or have disposed of them without order.

13ly. That all ammunition, powder & armes, other then for private use, shall be delivered up, securetie being given to make satisfaction for it.

14ly.
14th, That all goods allreadie brought higher by 5 Dutch or others which are now on shoor shall be free from surprizall.

15th, That the quitrents granted unto us by the late kinge for seaven yeares bee confirmed.

16th, That 5 commissioners for the parliamet subscribeing these articles engage themselves & the honour of the parliamet for the full performance thereof; and that the present governour & 5 councill & the burgeses do likewise subscribe & engage the whole collony on their parts.


Wm. Claiborne. ——— Seale.

Edmond Curtis. ——— Seale.

Theise articles were signed & sealed by the Commissioners of the Councill of State for the Commonwealth of England the twelveth day of March 1651.'

Then follow the articles stipulated by the governor and council, which relate merely to their own persons and property, and then the ensuing instrument:

An act of indemnitie made att the surrender of the countrey.

Whereas by the authoritie of the parliamet of England wee the commisioners appointed by the councille of state autho- rized thereto having brought a fleete & force
force before James citty in Virginia to reduce that collonie under the obedience of the commonwealth of England, & finding force raised by the Governour & country to make opposition against the said fleet whereby assurred danger appearing of the ruine & destruction of plantation, for prevention whereof the Burgeses of all the severall plantations being called to advise & assist therein, upon long & serious debate, and in sad contemplation of the great miseries & certaine destruction which were sorely hovering over the whole countrey; Wee the said Comissioners have thought fitt & condecended and granted to signe & confirme under our hands, seales, & by our oath, Articles bearing date with these presents, and do further declare that by authority of the parliament & commonwealth of England derived unto us theire Comissioners, that according to the articles in generall wee have granted an act of indemnity and oblivion to all the inhabitants of this collonie from all words, actions, or writings that have been spoken acted or writt against the parliament or commonwealth of England or any other person from the beginning of the world to this daye. And this wee have done that all the inhabitants of the collonie
The colony supposed, that, by this solemn
convention, entered into with arms in their
hands, they had secured the *antient limits
of their country, † its free trade, its ex-
emption from ‡ taxation but by their own
assembly, and exclusion of § military force
from among them. Yet in every of these
points was this convention violated by sub-
sequent kings and parliaments, and other
infractions of their constitution, equally dan-
gerous, committed. Their General Assem-
bly, which was composed of the council of
state and burgesses, sitting together and de-
ciding by plurality of voices, was split into
two houses, by which the council obtained a
writ against the laws of the colony, and the
wealth of England and the inhumanity of the
inhabitants, were the inhabitants of the colony
were

* Art. 4. † Art. 7. ‡ Art. 8. § Art. 8.
were reduced, in the space of thirty years, to about one hundred miles. Their trials with foreigners was totally suppressed, and when carried to Great-Britain, was then loaded with imposts. It is unnecessary, however, to glean up the several instances of injury, as scattered through American and British history, and the more especially as, by passing on to the accession of the present king, we shall find specimens of them all, aggravated, multiplied and crowded within a small compass of time, so as to evince a fixed design of considering our rights natural, conventional and chartered as mere nullities. The following is an epitome of the first fifteen years of his reign. The colonies were tried internally and externally; their essential interests sacrificed to individuals in Great-Britain; their legislatures suspended; charters annulled; trials by juries taken away; persons subjected to transportation across the Atlantic, and to trial before foreign jurisdictions; their supplications for redress thought beneath answer; themselves published as cowards in the councils of the mother country and courts of Europe; armed troops sent among them to enforce missions to these violences; and actual hostilities commenced against them. No alternative was presented but resistance, or unconditional submission.
ditional submission. Between these could be no hesitation. They closed in the appeal to arms. They declared themselves independent States. They confederated together into one great republic; thus securing to every State the benefit of an union of their whole force. In each State separately a new form of government was established. Of ours particularly the following are the outlines. The executive powers are lodged in the hands of a governor, chosen annually, and incapable of acting more than three years in seven. He is assisted by a council of eight members. The judiciary powers are divided among several courts, as will be hereafter explained. Legislation is exercised by two houses of assembly, the one called the house of Delegates, composed of two members from each county, chosen annually by the citizens possessing an estate for life in 100 acres of uninhabited land, or 25 acres with a house on it, or in a house or lot in some town: the other called the Senate, consisting of 24 members, chosen quadrennially by the same electors, who for this purpose are distributed into 24 districts. The concurrence of both houses is necessary to the passage of a law. They have the appointment of the governor and council, the judges of the superior courts, auditors, attor-
torney-general, treasurer, register of the land office, and delegates to congress. As the dismemberment of the state had never had its confirmation, but, on the contrary, had always been the subject of protestation and complaint, that it might never be in our own power to raise scruples on that subject, or to disturb the harmony of our new confederacy, the grants to Maryland, Pennsylvania, and the two Carolinas, were ratified.

This constitution was formed when we were new and unexperienced in the science of government. It was the first too which was formed in the whole United States. No wonder then that time and trial have discovered very capital defects in it.

1. The majority of the men in the state, who pay and fight for its support, are unrepresented in the legislature, the roll of freeholders entitled to vote, not including generally the half of those on the roll of the militia, or of the tax-gatherers.

2. Among those who share the representation, the shares are very unequal. Thus the county of Warwick, with only one hundred fighting men, has an equal representation with the county of Loudon, which has 1746. So that every man in Warwick has as much influence in the government as 17 men in Loudon. But left it should be thought that;
An equal intermixture of small among large counties, through the whole State, may prevent any danger of injury to particular parts of it, we will divide it into districts, and shew the proportions of land, of fighting men, and of representation in each.

<table>
<thead>
<tr>
<th>Square miles</th>
<th>Fighting Dele-</th>
<th>Sena-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Between the sea-coast and falls of the rivers</td>
<td>11,805</td>
<td>18,314</td>
</tr>
<tr>
<td>Between the falls of the rivers and the Blue ridge of mountains</td>
<td>18,759</td>
<td>18,828</td>
</tr>
<tr>
<td>Between the Blue ridge and the Alleghany</td>
<td>11,911</td>
<td>7,673</td>
</tr>
<tr>
<td>Between the Alleghany and Ohio</td>
<td>79,650</td>
<td>4,458</td>
</tr>
<tr>
<td>Total</td>
<td>121,352</td>
<td>45,971</td>
</tr>
</tbody>
</table>

An inspection of this table will supply the place of commentaries on it. It will appear at once that nineteen thousand men, living below the falls of the rivers, possess half the Senate, and want four members only of possessing a majority of the House of Delegates; a want more than supplied by the vicinity of their situation to the seat of government, and of course the greater degree of convenience and punctuality with which their members may and will attend in the legislature. These nineteen thousand, therefore, living in one part of the country, give

* Of these, 542 are on the Eastern shore.
† Of these, 22,616 are Eastward of the meridian of the mouth of the Great Kanhaway.
law to upwards of thirty thousand, living in another, and appoint all their chief officers executive and judiciary. From the difference of their situation and circumstances, their interests will often be very different.

3. The senate is, by its constitution, too homogeneous with the house of delegates. Being chosen by the same electors, at the same time, and out of the same subjects, the choice falls of course on men of the same description. The purpose of establishing different houses of legislation is to introduce the influence of different interests or different principles. Thus in Great-Britain it is said their constitution relies on the house of commons for honesty, and the lords for wisdom, which would be a rational reliance if honesty were to be bought with money, and if wisdom were hereditary. In some of the American states the delegates and senators are chosen, as that the first represent the person, and the second the property of the state. But with us, wealth and wisdom have equal chance for admission into both houses. We do not therefore derive from the separation of our legislature into two houses, those benefits which a proper complication of principles is capable of producing, and those which also can compensate the evils which may be produced by their dissensions.
4. All the powers of government, legislative, executive, and judiciary, result to the legislative body. The concentrating these in the same hands is precisely the definition of despotic government. It will be no alleviation that these powers will be exercised by a plurality of hands, and not by a single one. 173 despots would surely be as oppressive as one. Let those who doubt it turn their eyes on the republic of Venice. As little will it avail us that they are chosen by ourselves. An elective despotism was not the government we fought for; but one which should not only be founded on free principles, but in which the powers of government should be so divided and balanced among several bodies of magistracy, as that no one could transcend their legal limits, without being effectively checked and restrained by the others. For this reason that convention, which passed the ordinance of government, laid its foundation on this basis, that the legislative, executive and judiciary departments should be separate and distinct, so that no person should exercise the powers of more than one of them at the same time. But no barrier was provided between these several powers. The judiciary and executive members were left dependant on the legislative, for their subsistence in office, and some of them for their continuance.
continuance in it. If therefore, the legislature assumes executive and judiciary powers, no opposition is likely to be made; nor, if made, can it be effectual; because in that case they may put their proceedings into the form of an act of assembly, which will render them obligatory on the other branches. They have accordingly, in many instances, decided rights which should have been left to judiciary controversy: and the direction of the executive, during the whole time of their session, is becoming habitual and familiar. And this is done with no ill intention. The views of the present members are perfectly upright. When they are led out of their regular province, it is by art in others, and inadvertence in themselves. And this will probably be the case for some time to come. But it will not be a very long time. Mankind soon learn to make interest the use of every right and power which they possess, or may assume. The public money and public liberty, intended to have been deposited with three branches of magistracy, but found inadvertently to be in the hands of one only, will soon be discovered to be sources of wealth and dominion to those who hold them; distinguished too by this tempting circumstance, that they are the instrument as well as the object of acquisition. With money
money we will get men, said Caesar, and with men we will get money. Nor should our assembly be deluded by the integrity of their own purposes, and conclude that these unlimited powers will never be abused, because themselves are not disposed to abuse them. They should look forward to a time, and that not a distant one, when corruption in this, as in the country from which we derive our origin, will have seized the heads of government, and be spread by them through the body of the people; when they will purchase the voices of the people, and make them pay the price. Human nature is the same on every side of the Atlantic, and will be alike influenced by the same causes. The time to guard against corruption and tyranny, is before they shall have gotten hold on us. It is better to keep the wolf out of the fold, than to trust to drawing his teeth and talons after he shall have entered. To render these considerations the more cogent, we must observe in addition;

5. That the ordinary legislature may alter the constitution itself. On the discontinuance of assemblies, it became necessary to substitute in their place some other body, competent to the ordinary business of government, and to the calling forth the powers of the state for the maintenance of our opposition.

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tition to Great-Britain. Conventions were therefore introduced, consisting of two delegates from each county, meeting together and forming one house, on the plan of the former house of Burgesses, to whose place they succeeded. These were at first chosen anew for every particular session. But in March, 1775, they recommended to the people to choose a convention, which should continue in office a year. This was done accordingly in April 1775, and in the July following that convention passed an ordinance for the election of delegates in the month of April annually. It is well known, that in July 1775, a separation from Great-Britain and establishment of Republican government had never yet entered into any person's mind. A convention therefore, chosen under this ordinance, cannot be said to have been chosen for purposes which certainly did not exist in the minds of those who passed it. Under this ordinance, at the annual election in April 1776, a convention for the year was chosen. Independence, and the establishment of a new form of government, were not even yet the objects of the people at large. One extract from the pamphlet called Common Sense had appeared in the Virginia papers in February, and copies of the pamphlet itself had got into a few hands. But the idea had not been operated on in April, much less made up the minds of the electors of the convention. So far as a convention of the people on its own institution was a proper measure of the times, it was useless, as it was of no use as a convention for the purpose of government was equally energetic as a convention. But the orators of the times before and after, made a great deal of other legislation; and there are a few examples of it. The elevation of the people, their representation in the council, their participation in the government, is merely the idea of a people, as other as yet authorized, with the orators of the time. It is a form or a form of higher education of the people. It shall be promoted by others, the consequence of the people's knowledge, with their power.
had not been opened to the mass of the people in April, much less can it be said that they had made up their minds in its favor. So that the electors of April 1776, no more than the legislators of July 1775, not thinking of independance and a permanent republic, could not mean to vest in these delegates powers of establishing them, or any authorities other than those of the ordinary legislature. So far as a temporary organization of government was necessary to render our opposition energetic, so far their organization was valid. But they received in their creation no powers but what were given to every legislature before and since. They could not therefore pass an act transcendent to the powers of other legislatures. If the present assembly pass any act, and declare it shall be irrevocable by subsequent assemblies, the declaration is merely void, and the act repealable, as other acts are. So far, and no farther authorized, they organized the government by the ordinance entitled: a Constitution or Form of government. It pretends to no higher authority than the other ordinances of the same session; it does not say, that it shall be perpetual; that it shall be unalterable by other legislatures; that it shall be transcendent above the powers of those, who they knew would have equal power with themselves. Not only the silence of
the instrument is a proof they thought it would be alterable, but their own practice also: for this very convention, meeting as a House of Delegates in General Assembly with the new Senate in the autumn of that year, passed acts of assembly in contradiction to their ordinance of government; and every assembly from that time to this has done the same. I am safe therefore in the position, that the constitution itself is alterable by the ordinary legislature. Though this opinion seems founded on the first elements of common sense, yet is the contrary maintained by some persons. 1. Because, say they, the conventions were vested with every power necessary to make effectual opposition to Great-Britain. But to complete this argument, they must go on, and say further, that effectual opposition could not be made to Great-Britain, without establishing a form of government perpetual and unalterable by the legislature; which is not true. An opposition which at some time or other was to come to an end, could not need a perpetual institution to carry it on: and a government, amendable as its defects should be discovered, was as likely to make effectual resistance, as one which should be unalterably wrong. Besides, the assemblies were as much vested with all powers requisite for resistance
as the conventions were. If therefore these powers included that of modelling the form of government in the one case, they did so in the other. The assemblies then as well as the conventions may model the government; that is, they may alter the ordinance of government. 2. They urge, that if the convention had meant that this instrument should be alterable, as their other ordinances were, they would have called it an ordinance: but they have called it a constitution, which ex vi termini means 'an act above the power of the ordinary legislature.' I answer, that constitutio, constitutum, statutum, lex, are convertible terms. 'Constitutio dicitur jus quod a principe conditur.' 'Constitutum, quod ab imperatoribus rescriptum statutumque est.' 'Statutum, idem quod lex.' -Calvini Lexicon juridicum. Constitution and statute were originally terms of the * civil law, and from thence introduced by Ecclesiastics into the English law. Thus in the statute 25 Hen. 8. c. 19. § 1. 'Constitutions and ordinances' are used as synonymous. The term constitution has many other significations in physics and in politics; but in Jurisprudence, whenever it is applied to any act of the legislature, it


invariably
invariably means a statute, law, or ordinance, which is the present case. No inference then of a different meaning can be drawn from the adoption of this title: on the contrary, we might conclude, that, by their affixing to it a term synonymous with ordinance, or statute, they meant it to be an ordinance or statute. But of what consequence is their meaning, where their power is denied? If they meant to do more than they had power to do, did this give them power? It is not the name, but the authority which renders an act obligatory. Lord Coke says, 'an article of the statute 11 R. 2. c. 5, that no person should attempt to revoke any ordinance then made, is repealed, for that such restraint is against the jurisdiction and power of the parliament.' 4. inst. 42. and again, 'though divers parliaments have attempted to restrain subsequent parliaments, yet could they never effect it; for the latter parliament hath ever power to abrogate, suspend, qualify, explain, or make void the former in the whole or in any part thereof, notwithstanding any words of restraint, prohibition, or penalty, in the former: for it is a maxim in the laws of the parliament, quod leges posteriores priores contrarias abrogant.' 4. inst. 43.

To get rid of the magic supposed to be in the word constitution in the definition of it there the whole of the convictions of the judges, the order, the constitution, the constitutional character, first of all, with reference to the authority of the people. and the power of the authority as it is directly by that, the power of the people having no authority at all. But there was the question: was the constitution of the people itself? Was there the original times of the constitution of the people? Did the power of the people have an authority and was there the question of the people itself?
the word constitution, let us translate it into its definition as given by those who think it above the power of the law; and let us suppose the convention instead of saying, "We, the ordinary legislature, establish a constitution," had said, "We, the ordinary legislature, establish an act above the power of the ordinary legislature." Does not this expose the absurdity of the attempt? 3. But, say they, the people have acquiesced, and this has given it an authority superior to the laws. It is true, that the people did not rebel against it; and was that a time for the people to rise in rebellion? Should a prudent acquiescence, at a critical time, be construed into a confirmation of every illegal thing done during that period? Besides, why should they rebel? At an annual election, they had chosen delegates for the year, to exercise the ordinary powers of legislation, and to manage the great contest in which they were engaged. These delegates thought the contest would be best managed by an organized government. They therefore, among others, passed an ordinance of government. They did not presume to call it perpetual and unalterable. They well knew they had no power to make it so; that our choice of them had been for no such purpose, and at a time when we could have no such purpose in contemplation. Had an unalterable
unalterable form of government been meditated, perhaps we should have chosen a different set of people. There was no cause then for the people to rise in rebellion. But to what dangerous lengths will this argument lead? Did the acquiescence of the colonies under the various acts of power exercised by Great-Britain in our infant state, confirm these acts, and so far invest them with the authority of the people as to render them unalterable, and our present resistance wrong? On every unauthoritative exercise of power by the legislature, must the people rise in rebellion, or their silence be construed into a surrender of that power to them? If so, how many rebellions should we have had already? One certainly for every session of assembly. The other states in the Union have been of opinion, that to render a form of government unalterable by ordinary acts of assembly, the people must delegate persons with special powers. They have accordingly chosen special conventions to form and fix their governments. The individuals then who maintain the contrary opinion in this country, should have the modesty to suppose it possible that they may be wrong and the rest of America right. But if there be only a possibility of their being wrong, if only a plausible doubt remains of the validity of the
the ordinance of government; is it not better to remove that doubt, by placing it on a bottom which none will dispute? If they be right, we shall only have the unnecessary trouble of meeting once in convention. If they be wrong, they expose us to the hazard of having no fundamental rights at all. True it is, this is no time for deliberating on forms of government. While an enemy is within our bowels, the first object is to expel him. But when this shall be done, when peace shall be established, and leisure given us for intrenching within good forms, the rights for which we have bled, let no man be found indolent enough to decline a little more trouble for placing them beyond the reach of question. If any thing more be requisite to produce a conviction of the expediency of calling a convention, at a proper season, to fix our form of government, let it be the reflection,

6. That the assembly exercises a power of determining the Quorum of their own body which may legislate for us. After the establishment of the new form they adhered to the *Lex majoris partis*, founded in *common law as well as common right. It is the *natural*
tural law of every assembly of men, whose numbers are not fixed by any other law. They continued for some time to require the presence of a majority of their whole number, to pass an act. But the British parliament fixes its own quorum: our former assemblies fixed their own quorum: and one precedent in favour of power is stronger than an hundred against it. The house of delegates therefore, have lately voted that, during the present dangerous invasion, forty members shall be a house to proceed to business. They have been moved to this by the fear of not being able to collect a house. But this danger could not authorize them to call that a house which was none: and if they may fix it at one number, they may at another, till it loses its fundamental character of being a representative body. As this vote expires with the present invasion, it is probable the former rule will be permitted to revive: because at present no ill is meant. The power however of fixing their own quorum has been avowed, and a precedent set. From forty it may be reduced to four, and from four to one: from a house to a committee, from a committee to a chairman or speaker, and thus an oligarchy or monarchy be sub-

† June 4, 1781.
ferred under forms supposed to be regular. * Omnia mala exempla ex bonis orca sunt: sed ubi imperium ad ignorantia aut minus bonos pervenit, novum illud exemplum ab dignis et idoneis ad indignos et non idoneos fertur.* When therefore it is considered, that there is no legal obstacle to the assumption by the assembly of all the powers legislative, executive, and judiciary, and that these may come to the hands of the smallest rag of delegation, surely the people will say, and their representatives, while yet they have honest representatives, will advise them to say, that they will not acknowledge as laws any acts not considered and assented to by the major part of their delegates.

In enumerating the defects of the constitution, it would be wrong to count among them what is only the error of particular persons. In December 1776, our circumstances being much distressed, it was proposed in the house of delegates to create a dictator, invested with every power legislative, executive and judiciary, civil and military, of life and of death, over our persons and over our properties; and in June 1781, again under calamity, the same proposition was repeated, and wanted a few votes only of being passed.—One who entered into this contest from a pure love of liberty, and a
sence of injured rights, who determined to make every sacrifice, and to meet every danger, for the re-establishment of those rights on a firm basis, who did not mean to expend his blood and substance for the wretched purpose of changing this matter for that, but to place the powers of governing him in a plurality of hands of his own choice, so that the corrupt will of no one man might in future oppress him, must stand confounded and dismayed when he is told, that a considerable portion of that plurality had meditated the surrender of them into a single hand, and, in lieu of a limited monarch, to deliver him over to a despotic one! How must we find his efforts and sacrifices abused and baffled, if he may still by a single vote be laid prostrate at the feet of one man! In God's name, from whence have they derived this power? is, from our ancient laws? None such can be produced. Is it from any principle in our new constitution, expressed or implied? Every lineament of that expressed or implied, is in full opposition to it. Its fundamental principle is, that the state shall be governed as a commonwealth. It provides a republican organization, proscribes under the name of prerogative the exercise of all powers undefined by the laws; places on this basis the whole
whole system of our laws; and, by consolidating them together, chuses that they shall be left to stand or fall together, never providing for any circumstances, nor admitting that such could arise, wherein either should be suspended, no, not for a moment. Our antient laws expressly declare, that those who are but delegates themselves shall not delegate to others powers which require judgment and integrity in their exercise.—

Or was this proposition moved on a supposed right in the movers of abandoning their posts in a moment of distress? The same laws forbid the abandonment of that post, even on ordinary occasions; and much more a transfer of their powers into other hands and other forms, without consulting the people. They never admit the idea that these, like sheep or cattle, may be given from hand to hand without an appeal to their own will.—Was it from the necessity of the case? Necessities which dissolve a government, do not convey its authority to an oligarchy or a monarchy. They throw back, into the hands of the people, the powers they had delegated, and leave them as individuals to shift for themselves. A leader may offer, but not impose himself, nor be imposed on them. Much less can their necks be submitted to his sword, their breath be held at his
his will or caprice. The necessity which
should operate these tremendous effects
should at least be palpable and irresistible.
Yet in both instances, where it was feared,
or pretended with us, it was belied by the
event. It was belied too by the preceding
experience of our sister states, several of
whom had grappled through greater diffi-
culties without abandoning their forms of
government. When the proposition was
first made, Massachusetts had found even the
government of committees sufficient to carry
them through an invasion. But we at the
time of that proposition were under no inva-
sion. When the second was made, there
had been added to this example those of
Rhode-Island, New-York, New-Jersey, and
Pennsylvania, in all of which the republican
form had been found equal to the task of
carrying them through the severest trials.
In this state alone did there exist so little
virtue, that fear was to be fixed in the heart
of the people, and to become the motive of
their exertions and the principle of their go-
vernment? The very thought alone was trea-
sion against the people; was treason against
mankind in general; as rivetting for ever
the chains which bow down their necks, by
giving to their oppressors a proof, which
they would have trumpeted through the univer-
universe, of the imbecility of republican government, in times of pressing danger, to
shield them from harm. Those who assume the right of giving away the reins of go-
vernment in any case, must be sure that the herd, whom they hand on to the rods and
hatchet of the dictator, will lay their necks on the block when he shall nod to them.
But if our assemblies supposed such a resigna
nation in the people, I hope they mistook
their character. I am of opinion, that the
government, instead of being braced and
invigorated for greater exertions under their
difficulties, would have been thrown back
upon the bungling machinery of county
committees for administration, till a con-
vention could have been called, and its wheels
again set into regular motion. What a
cruel moment was this for creating such an
embarrassment, for putting to the proof the
attachment of our countrymen to republican
government! Those who meant well, of the
advocates for this measure, (and most of
them meant well, for I know them person
ally, had been their fellow-labourers in
the common cause, and had often proved
the purity of their principles), had been seduced in their judgment by the example of
an ancient republic, whose constitution and
circumstances were fundamentally different.

P 2

They
They had sought this precedent in the history of Rome, where alone it was to be found, and where at length too it had proved fatal. They had taken it from a republic rent by the most bitter factions and tumult, where the government was of a heavy-handed unfeeling aristocracy, over a people ferocious, and rendered desperate by poverty and wretchedness; tumults which could not be allayed under the most trying circumstances, but by the omnipotent hand of a single despot. Their constitution therefore allowed a temporary tyrant to be erected, under the name of a Dictator; and that temporary tyrant, after a few examples, became perpetual. They misapplied this precedent to a people, mild in their dispositions, patient under their trial, united for the public liberty, and affectionate to their leaders. But if from the constitution of the Roman government there resulted to their Senate a power of submitting all their rights to the will of one man, does it follow, that the assembly of Virginia have the same authority? What clause in our constitution has substituted that of Rome, by way of residual provision, for all cases not otherwise provided for? Or if they may step ad libitum into any other form of government for precedents to rule us by, for what oppression

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tion may not a precedent be found in this world of the bellum omnium in omnia?— Searching for the foundations of this proposition, I can find none which may pretend a colour of right or reason, but the defect before developed, that there being no barrier between the legislative, executive, and judiciary departments, the legislature may seize the whole: that having seized it, and possessing a right to fix their own quorum, they may reduce that quorum to one, whom they may call a chairman, speaker, dictator, or by any other name they please.—Our situation is indeed perilous, and I hope my countrymen will be sensible of it, and will apply, at a proper season, the proper remedy; which is a convention to fix the constitution, to amend its defects, to bind up the several branches of government by certain laws, which when they transgress, their acts shall become nullities; to render unnecessary an appeal to the people, or in other words a rebellion, on every infractions of their rights, on the peril that their acquiescence shall be construed into an intention to surrender those rights.
QUERY XIV.

THE administration of justice and description of the laws?

The state is divided into counties. In every county are appointed magistrates, called justices of the peace, usually from eight to thirty or forty in number, in proportion to the size of the county, of the most discreet and honest inhabitants. They are nominated by their fellows, but commissioned by the governor, and act without reward. These magistrates have jurisdiction both criminal and civil. If the question before them be a question of law only, they decide on it themselves; but if it be of fact, or of fact and law combined, it must be referred to a jury. In the latter case, of a combination of law and fact, it is usual for the jurors to decide the fact, and to refer the law arising on it to the decision of the judges. But this division of the subject lies with their discretion only. And if the question relate to any point of public liberty, or if it be one of those in which the judge may be suspected of bias, the jury under take to decide both law and fact. If they be mistaken, a decision against right, which is casual only, is less dangerous to the state and
and less afflicting to the lofer, than one which makes part of a regular and uniform system. In truth, it is better to toss up cross and pile in a cause, than to refer it to a judge whose mind is warped by any motive whatever, in that particular case. But the common sense of twelve honest men gives still a better chance of just decision, than the hazard of cross and pile. These judges execute their process by the sheriff or coroner of the county, or by constables of their own appointment. If any free person commit an offence against the commonwealth, if it be below the degree of felony, he is bound by a justice to appear before their court, to answer it on indictment or information. If it amount to felony, he is committed to jail, a court of these justices is called; if they on examination think him guilty, they send him to the jail of the general court, before which court he is to be tried first by a grand jury of 24, of whom 13 must concur in opinion: if they find him guilty, he is then tried by a jury of 12 men of the county where the offence was committed, and by their verdict, which must be unanimous, he is acquitted or condemned without appeal. If the criminal be a slave the trial by the county court is final. In every case however, except that of high treason, there resides in the governor a power
power of pardon. In high treason, the pardon can only flow from the general assembly. In civil matters these justices have jurisdiction in all cases of whatever value, not appertaining to the department of the admiralty. This jurisdiction is twofold. If the matter in dispute be of less value than 40 dollars, a single member may try it at any time and place within his county, and may award execution on the goods of the party cast. If it be of that or greater value, it is determinable before the county court, which consists of four at the least of those justices, and assembles at the court-house of the county on a certain day in every month. From their determination, if the matter be of the value of ten pounds sterling, or concern the title or bounds of lands, an appeal lies to one of the superior courts.

There are three superior courts, to wit, the high-court of chancery, the general court, and court of admiralty. The first and second of these receive appeals from the county courts, and also have original jurisdiction where the subject of controversy is of the value of ten pounds sterling, or where it concerns the title or bounds of land. The jurisdiction of the admiralty is original altogether. The high-court of chancery is composed of three judges, the general court of
of five, and the court of admiralty of three. The two first hold their sessions at Richmond at stated times, the chancery twice in the year, and the general court twice for business civil and criminal, and twice more for criminal only. The court of admiralty sits at Williamsburgh whenever a controversy arises.

There is one supreme court, called the court of appeals, composed of the judges of the three superior courts, assembling twice a year at stated times at Richmond. This court receives appeals in all civil cases from each of the superior courts, and determines them finally. But it has no original jurisdiction.

If a controversy arise between two foreigners of a nation in alliance with the United States, it is decided by the Consul for their State, or, if both parties choose it, by the ordinary courts of justice. If one of the parties only be such a foreigner, it is triable before the courts of justice of the country. But if it shall have been instituted in a county court, the foreigner may remove it into the general court, or court of chancery, who are to determine it at their first sessions, as they must also do if it be originally commenced before them. In cases of life and death, such foreigners have a right to be tried
tried by a jury, the one half foreigners, the
other natives.

All public accounts are settled with a
board of auditors, consisting of three mem-
bers, appointed by the general assembly,
any two of whom may act. But an individ-
dual, dissatisfied with the determination of
that board, may carry his case into the pro-
per superior court.

A description of the laws.

The general assembly was constituted, as
has been already shewn, by letters-patent of
March the 9th, 1607, in the 4th year of the
reign of James the First. The laws of Eng-
land seem to have been adopted by consent
of the settlers, which might easily enough
be done whilst they were few and living all
together. Of such adoption however we have
no other proof than their practice, till the
year 1661, when they were expressly adopted
by an act of the assembly, except so far as
'a difference of condition' rendered them
inaplicable. Under this adoption, the rule,
in our courts of judicature was, that the
common law of England, and the general
statutes previous to the 4th of James, were
in force here; but that no subsequent sta-
tutes were, unless we were named in them,
said the judges and other partisans of the
crown, but named or not named, said those
who
who reflected freely. It will be unnecessary to attempt a description of the laws of England, as that may be found in English publications. To those which were established here, by the adoption of the legislature, have been since added a number of acts of assembly passed during the monarchy, and ordinances of convention and acts of assembly enacted since the establishment of the republic. The following variations from the British model are perhaps worthy of being specified.

Debtors unable to pay their debts, and making faithful delivery of their whole effects, are released from confinement, and their persons for ever discharged from restraint for such previous debts: but any property they may afterwards acquire will be subject to their creditors.

The poor, unable to support themselves, are maintained by an assessment on the titheable persons in their parish. This assessment is levied and administered by twelve persons in each parish, called vestrymen, originally chosen by the housekeepers of the parish, but afterwards filling vacancies in their own body by their own choice. These are usually the most discreet farmers, so distributed through their parish, that every part of it may be under the immediate eye of some one
of them. They are well acquainted with the details and economy of private life, and they find sufficient inducements to execute their charge well, in their philanthropy, in the approbation of their neighbours, and the distinction which that gives them. The poor who have neither property, friends, nor strength to labour, are boarded in the houses of good farmers, to whom a stipulated sum is annually paid. To those who are able to help themselves a little, or have friends from whom they derive some succours, inadequate however to their full maintenance, supplementary aids are given, which enable them to live comfortably in their own houses, or in the houses of their friends. Vagabonds, without visible property or vocation, are placed in workhouses, where they are well clad, fed, lodged, and made to labour. Nearly the same method of providing for the poor prevails through all our states; and from Savannah to Portsmouth you will seldom meet a beggar. In the larger towns indeed they sometimes present themselves. These are usually foreigners, who have never obtained a settlement in any parish. I never yet saw a native American begging in the streets or highways. A subsistence is easily gained here: and if, by misfortunes, they are thrown on the charities of the world, those
those provided by their own country are so comfortable and so certain, that they never think of relinquishing them to become strolling beggars. Their situation too, when sick, in the family of a good farmer, where every member is emulous to do them kind offices, where they are visited by all the neighbours, who bring them the little rarities which their sickly appetites may crave, and who take by rotation the nightly watch over them, when their condition requires it, is without comparison better than in a general hospital, where the sick, the dying, and the dead are crammed together, in the same rooms, and often in the same beds. The disadvantages, inseparable from general hospitals, are such as can never be counterpoised by all the regularities of medicine and regimen. Nature and kind nursing save a much greater proportion in our plain way, at a smaller expense, and with less abuse. One branch only of hospital institution is wanting with us; that is, a general establishment for those labouring under difficult cases of chirurgery. The aids of this art are not equivocal. But an able chirurgeon cannot be had in every parish. Such a receptacle should therefore be provided for those patients; but no others should be admitted.

Marriages
Marriages must be solemnized either on special licence, granted by the first magistrate of the county, on proof of the consent of the parent or guardian of either party under age, or after solemn publication, on three several Sundays, at some place of religious worship, in the parishes where the parties reside. The act of solemnization may be by the minister of any society of Christians, who shall have been previously licensed for this purpose by the court of the county. Quakers and Mononists however are exempted from all these conditions, and marriage among them is to be solemnized by the society itself.

A foreigner of any nation, not in open war with us, becomes naturalized by removing to the state to reside, and taking an oath of fidelity: and thereupon acquires every right of a native citizen: and citizens may divest themselves of that character, by declaring, by solemn deed, or in open court, that they mean to expatriate themselves, and no longer to be citizens of this state.

Conveyances of land must be registered in the court of the county wherein they lie, or in the general court, or they are void, as to creditors, and subsequent purchasers.

Slaves pass by descent and dower as lands do. Where the descent is from a parent, the heir is bound to pay an equal share of their value.
value in money to each of his brothers and

Slaves, as well as lands, were entailed
during the monarchy; but, by an act of the
first republican assembly, all donees in tail,
present and future, were vested with the abso-

lute dominion of the entailed subject.

Bills of exchange, being protestted, carry
10 per cent. interest from their date.

No person is allowed, in any other case,
to take more than five per cent. per annum
simple interest, for the loan of monies.

Gaming debts are made void, and monies
actually paid to discharge such debts (if they
exceeded 40 shillings) may be recovered by
the payer within three months, or by any
other person afterwards.

Tobacco, flour, beef, pork, tar, pitch, and
turpentine, must be inspected by persons
publicly appointed, before they can be ex-
ported.

The erecting iron-works and mills is en-
couraged by many privileges; with necessary
cautions however to prevent their dams from
obstructing the navigation of the water-
courses. The general assembly have on se-
veral occasions shewn a great desire to en-
courage the opening the great falls of James
and Potowmac rivers. As yet, however,
neither of these have been effected.

The
The laws have also descended to the preservation and improvement of the races of useful animals, such as horses, cattle, deer; to the extirpation of those which are noxious, as wolves, squirrels, crows, blackbirds; and to the guarding our citizens against infectious disorders, by obliging suspected vessels coming into the state, to perform quarantine, and by regulating the conduct of persons having such disorders within the state.

The mode of acquiring lands, in the earliest times of our settlement, was by petition to the general assembly. If the lands prayed for were already cleared of the Indian title, and the assembly thought the prayer reasonable, they passed the property by their vote to the petitioner. But if they had not yet been ceded by the Indians, it was necessary that the petitioner should previously purchase their right. This purchase the assembly verified, by enquiries of the Indian proprietors; and being satisfied of its reality and fairness, proceeded further to examine the reasonableness of the petition, and its consistence with policy; and, according to the result, either granted or rejected the petition. The company also sometimes, though very rarely, granted lands, independantly of the general assembly. As the colony increased, and individual applications for land multiplied,
multiplied, it was found to give too much occupation to the general assembly to enquire into and execute the grant in every special case. They therefore thought it better to establish general rules, according to which all grants should be made, and to leave to the governor the execution of them, under these rules. This they did by what have been usually called the land laws, amending them from time to time, as their defects were developed. According to these laws, when an individual wished a portion of unappropriated land, he was to locate and survey it by a public officer, appointed for that purpose: its breadth was to bear a certain proportion to its length: the grant was to be executed by the governor: and the lands were to be improved in a certain manner, within a given time. From these regulations there resulted to the state a sole and exclusive power of taking conveyances of the Indian right of soil: since, according to them, an Indian conveyance alone could give no right to an individual, which the laws would acknowledge. The state, or the crown, thereafter, made general purchases of the Indians from time to time, and the governor parcelled them out by special grants, conform to the rules before described, which it was not in his power, or in that of the
crown, to dispense with. Grants, unaccompanied by their proper legal circumstances, were set aside regularly by seize facias, or by bill in Chancery. Since the establishment of our new government, this order of things is but little changed. An individual, willing to appropriate to himself lands still unappropriated by any other, pays to the public treasurer a sum of money proportioned to the quantity he wants. He carries the treasurer's receipt to the auditors of public accounts, who thereupon debit the treasurer with the sum, and order the register of the land-office to give the party a warrant for his land. With this warrant from the register, he goes to the surveyor of the county where the land lies on which he has cast his eye. The surveyor lays it off for him, gives him its exact description, in the form of a certificate, which certificate he returns to the land-office, where a grant is made out, and is signed by the governor. This vests in him a perfect dominion in his lands, transferrable to whom he pleases by deed or will, or by descent to his heirs if he die intestate.

Many of the laws which were in force during the monarchy being relative merely to that form of government, or inculcating principles inconsistent with republicanism, the
the first assembly which met after the establishment of the commonwealth appointed a committee to revise the whole code, to reduce it into proper form and volume, and report it to the assembly. This work has been executed by three gentlemen, and reported; but probably will not be taken up till a restoration of peace shall leave to the legislature leisure to go through such a work.

The plan of the revival was this. The common law of England, by which is meant, that part of the English law which was anterior to the date of the oldest statutes extant, is made the basis of the work. It was thought dangerous to attempt to reduce it to a text; it was therefore left to be collected from the usual monuments of it. Necessary alterations in that, and so much of the whole body of the British statutes, and of acts of assembly, as were thought proper to be retained, were digested into 126 new acts, in which simplicity of style was aimed at, as far as was safe. The following are the most remarkable alterations proposed:

To change the rules of descent, so as that the lands of any person dying intestate shall be divisible equally among all his children, or other representatives, in equal degree.
To make slaves distributable among the next of kin, as other moveables.

To have all public expences, whether of the general treasury, or of a parish or county, (as for the maintenance of the poor, building bridges, court-houses, &c.) supplied by assessments on the citizens, in proportion to their property.

To hire undertakers for keeping the public roads in repair, and indemnify individuals through whose lands new roads shall be opened.

To define with precision the rules whereby aliens should become citizens, and citizens make themselves aliens.

To establish religious freedom on the broadest bottom.

To emancipate all slaves born after passing the act. The bill reported by the revisors does not itself contain this proposition, but an amendment containing it was prepared, to be offered to the legislature whenever the bill should be taken up, and further directing, that they should continue with their parents to a certain age, then be brought up, at the public expence, to tillage, arts or sciences, according to their genius, till the females should be eighteen, and the males twenty-one years of age, when they should be colonized to such place as the circumstances...
stances of the time should render most pro-
per, sending them out with arms, implements
of household and of the handicraft arts, seeds,
pairs of the useful domestic animals, &c. to
declare them a free and independent people,
and extend to them our alliance and protec-
tion, till they shall have acquired strength;
and to send vessels at the same time to other
parts of the world for an equal number of
white inhabitants; to induce whom to mi-
grate hither, proper encouragements were to
be proposed. It will probably be asked,
Why not retain and incorporate the blacks
into the state, and thus save the expense of
supplying, by importation of white settlers,
the vacancies they will leave? Deep rooted
prejudices entertained by the whites; ten
thousand recollections, by the blacks, of the
injuries they have sustained; new provoca-
tions; the real distinctions which nature has
made; and many other circumstances, will
divide us into parties, and produce convul-
sions which will probably never end but in
the extermination of the one or the other
race.—To these objections, which are poli-
tical, may be added others, which are phy-
sical and moral. The first difference which
strikes us is that of colour. Whether the
black of the negro resides in the reticular
membrane between the skin and scarfskin,
or in the scarf-skin itself; whether it proceeds from the colour of the blood, the colour of the bile, or from that of some other secretion, the difference is fixed in nature, and is as real as if its seat and cause were better known to us. And is this difference of no importance? Is it not the foundation of a greater or less share of beauty in the two races? Are not the fine mixtures of red and white, the expressions of every passion by greater or less suffusions of colour in the one, preferable to that eternal monotony, which reigns in the countenances, that immoveable veil of black which covers all the emotions of the other race? Add to these, flowing hair, a more elegant symmetry of form, their own judgment in favour of the whites, declared by their preference of them, as uniformly as is the preference of the Orangootan for the black women over those of his own species. The circumstance of superior beauty, is thought worthy attention in the propagation of our horses, dogs, and other domestic animals; why not in that of man? Besides those of colour, figure, and hair, there are other physical distinctions proving a difference of race. They have less hair on the face and body. They secrete less by the kidneys, and more by the glands of the skin, which gives them a very strong and disagreeable
disagreeable odour. This greater degree of tranpiration renders them more tolerant of heat, and less so of cold, than the whites. Perhaps too a difference of structure in the pulmonary apparatus, which a late ingenious * experimentalist has discovered to be the principal regulator of animal heat, may have disabled them from extricating, in the act of inspiration, so much of that fluid from the outer air, or obliged them in expiration, to part with more of it. They seem to require less sleep. A black, after hard labour through the day, will be induced by the lightest amusements to fit up till midnight, or later, though knowing he must be out with the first dawn of the morning. They are at least as brave, and more adventure-some. But this may perhaps proceed from a want of forethought, which prevents their seeing a danger till it be present. When present, they do not go through it with more coolness or steadiness than the whites. They are more ardent after their female: but love seems with them to be more an eager desire, than a tender delicate mixture of sentiment and sensation. Their griefs are transient. Those numerous afflicitions, which render it doubtful whether heaven has given life to us in mercy or in wrath, are less felt, and sooner forgot.

* Crawford.

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ten with them. In general, their existence appears to participate more of sensation than reflection. To this must be ascribed their disposition to sleep when abstracted from their diversions, and unemployed in labour. An animal whose body is at rest, and who does not reflect, must be disposed to sleep of course. Comparing them by their faculties of memory, reason, and imagination, it appears to me, that in memory they are equal to the whites; in reason much inferior, as I think one could scarcely be found capable of tracing and comprehending the investigations of Euclid; and that in imagination they are dull, tasteless, and anomalous. It would be unfair to follow them to Africa for this investigation. We will consider them here, on the same stage with the whites, and where the facts are not apocryphal on which a judgment is to be formed. It will be right to make great allowances for the difference of condition, of education, of conversation, of the sphere in which they move. Many millions of them have been brought to, and born in America. Most of them indeed have been confined to tillage, to their own homes, and their own society: yet many have been so situated, that they might have availed themselves of the conversation of their masters; many have been brought up
to the handicraft arts, and from that circumstance have always been associated with the whites. Some have been liberally educated, and all have lived in countries where the arts and sciences are cultivated to a considerable degree, and have had before their eyes samples of the best works from abroad. The Indians, with no advantages of this kind, will often carve figures on their pipes not destitute of design and merit. They will crayon out an animal, a plant, or a country, so as to prove the existence of a germ in their minds which only wants cultivation. They astonish you with strokes of the most sublime oratory; such as prove their reason and sentiment strong, their imagination glowing and elevated. But never yet could I find that a black had uttered a thought above the level of plain narration; never see even an elementary trait of painting or sculpture. In music they are more generally gifted than the whites with accurate ears for tune and time, and they have been found capable of imagining a small catch *. Whether they will be equal to the composition of a more extensive run of melody, or of complicated harmony, is

* The instrument proper to them is the Banjar, which they brought hither from Africa, and which is the original of the guitar, its chords being precisely the four lower chords of the guitar.
yet to be proved. Misery is often the parent of the most affecting touches in poetry.—Among the blacks is misery enough, God knows, but no poetry. Love is the peculiar oestrum of the poet. Their love is ardent, but it kindles the senses only, not the imagination. Religion indeed has produced a Phyllis Whately; but it could not produce a poet. The compositions published under her name are below the dignity of criticism. The heroes of the Dunciad are to her, as Hercules to the author of that poem. Ignatius Sancho has approached nearer to merit in composition; yet his letters do more honour to the heart than the head. They breathe the purest effusions of friendship and general philanthropy, and shew how great a degree of the latter may be compounded with strong religious zeal. He is often happy in the turn of his compliments, and his style is easy and familiar, except when he affects a Shandean fabrication of words. But his imagination is wild and extravagant, escapes incessantly from every restraint of reason and taste, and, in the course of its vagaries, leaves a tract of thought as incoherent and eccentric, as is the course of a meteor through the sky. His subjects should often have led him to a process of sober reasoning: yet we find him always substituting sentiment
sentiment for demonstration. Upon the whole, though we admit him to the first place among those of his own colour who have presented themselves to the public judgment, yet when we compare him with the writers of the race among whom he lived, and particularly with the epistolary class, in which he has taken his own stand, we are compelled to enroll him at the bottom of the column. This criticism supposes the letters published under his name to be genuine, and to have received amendment from no other hand; points which would not be of easy investigation. The improvement of the blacks in body and mind, in the first instance of their mixture with the whites, has been observed by every one, and proves that their inferiority is not the effect merely of their condition of life. We know that among the Romans, about the Augustan age especially, the condition of their slaves was much more deplorable than that of the blacks on the continent of America. The two sexes were confined in separate apartments, because to raise a child cost the master more than to buy one. Cato, for a very restricted indulgence to his slaves in this particular, took from them a certain price. But in

this country the slaves multiply as fast as the free inhabitants. Their situation and manners place the commerce between the two sexes almost without restraint.—The same Cato, on a principle of economy, always sold his sick and superannuated slaves. He gives it as a standing precept to a master visiting his farm, to sell his old oxen, old waggons, old tools, old and diseased servants, and every thing else become useless.

'Vendat boves vetulos, planifrum vetus, ferramenta vetera, servum senem, servum morbosum, & si quid aliud superflus vendat.' Cato de re rustica. c. 2. The American slaves cannot enumerate this among the injuries and insults they receive. It was the common practice to expose in the island of Æsculapius, in the Tyber, diseased slaves, whose cure was like to become tedious. The Emperor Claudius, by an edict, gave freedom to such of them as should recover, and first declared, that if any person chose to kill rather than to expose them, it should be deemed homicide. The exposing them is a crime of which no instance has existed with us; and were it to be followed by death, it would be punished capitaly. We are told of a certain Vedius Pollio, who, in the presence of Augustus, would have given a slave as food to his fish, for having broken a glass.

With
With the Romans, the regular method of taking the evidence of their slaves was under torture. Here it has been thought better never to resort to their evidence. When a master was murdered, all his slaves, in the same house, or within hearing, were condemned to death. Here punishment falls on the guilty only, and as precise proof is required against him as against a freeman. Yet notwithstanding these and other discouraging circumstances among the Romans, their slaves were often their rarest artists. They excelled too in science, insomuch as to be usually employed as tutors to their master's children. Epictetus, Terence, and Phaedrus, were slaves. But they were of the race of whites. It is not their condition then, but nature, which has produced the distinction. — Whether further observation will or will not verify the conjecture, that nature has been less bountiful to them in the endowments of the head, I believe that in those of the heart she will be found to have done them justice. That disposition to theft with which they have been branded, must be ascribed to their situation, and not to any depravity of the moral sense. The man, in whose favour no laws of property exist, probably feels himself less bound to respect those made in favour of others. When arguing for ourselves, we lay it
it down as a fundamental, that laws, to be just, must give a reciprocation of right; that, without this, they are mere arbitrary rules of conduct, founded in force, and not in conscience: and it is a problem which I give to the master to solve, whether the religious precepts against the violation of property were not framed for him as well as his slave? And whether the slave may not as justifiably take a little from one, who has taken all from him, as he may slay one who would slay him? That a change in the relations in which a man is placed should change his ideas of moral right and wrong, is neither new, nor peculiar to the colour of the blacks. Homer tells us it was so 2600 years ago.

"Μηδεν χρόνος ἀποτελεῖ τοῦτον ζώον.
"Ανάρες, ὥσ ποτε μιν πατρὶ δόλῳ ἤργα ἔχειν. Od. 17. 313.

Jove fixed it certain, that whatever day
Makes man a slave, takes half his worth away.

But the slaves of which Homer speaks were whites. Notwithstanding these considerations which must weaken their respect for the laws of property, we find among them numerous instances of the most rigid integrity, and as many as among their better instructed masters, of benevolence, gratitude, and unshaken fidelity.—The opinion, that they are inferior in the faculties of reason

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son and imagination, must be hazarded with great diffidence. To justify a general conclusion, requires many observations, even where the subject may be submitted to the Anatomical knife, to Optical glasses, to analysis by fire, or by solvents. How much more then where it is a faculty, not a substance, we are examining; where it eludes the research of all the senses; where the conditions of its existence are various and variously combined; where the effects of those which are present or absent bid defiance to calculation; let me add too, as a circumstance of great tenderness, where our conclusion would degrade a whole race of men from the rank in the scale of beings which their Creator may perhaps have given them. To our reproach it must be said, that though for a century and a half we have had under our eyes the races of black and of red men, they have never yet been viewed by us as subjects of natural history. I advance it therefore as a suspicion only, that the blacks, whether originally a distinct race, or made distinct by time and circumstances, are inferior to the whites in the endowments both of body and mind. It is not against experience to suppose, that different species of the same genus, or varieties of the same species, may possess different qualifi-
Will not a lover of natural history then, one who views the gradations in all the races of animals with the eye of philosophy, excuse an effort to keep those in the department of man as distinct as nature has formed them? This unfortunate difference of colour, and perhaps of faculty, is a powerful obstacle to the emancipation of these people. Many of their advocates, while they wish to vindicate the liberty of human nature, are anxious also to preserve its dignity and beauty. Some of these, embarrassed by the question 'What further is to be done with them?' join themselves in opposition with those who are actuated by base avarice only. Among the Romans emancipation required but one effort. The slave, when made free, might mix with, without staining the blood of his master. But with us a second is necessary, unknown to history. When freed, he is to be removed beyond the reach of mixture.

The revised code further proposes to proportion crimes and punishments. This is attempted on the following scale.

I. Crimes
I. Crimes whose punishment extends to Life.
      Forfeiture of lands and goods to the commonwealth.
      Forfeiture of half the lands and goods to the representatives of the party slain.
      Forfeiture of one-half as before.
   2. in Duel.  Death by hanging.  Gibbeting, if the challenger.
      Forfeiture of one-half as before, unless it be the party challenged, then the forfeiture is to the commonwealth.
   3. in any other way.  Death by hanging
      Forfeiture of one-half as before.

IV. Man-slaughter.  The second offence is murder.

II. Crimes whose punishment goes to Limb.
   1. Rape,  
      Dismemberment.
   2. Sodomy,  
   3. Maiming,  Retaliation, and the forfeiture of half the lands and goods to the sufferer.
   4. Disfiguring,  

III. Crimes punishable by Labour.
   1. Man-slaughter, 1st offence.  Labour VII. years for the public.  Forfeiture of half as in murder.
   2. Counterfeiting money.  Labour VI. years.  Forfeiture of lands and goods to the commonwealth.
<table>
<thead>
<tr>
<th>No.</th>
<th>Crime</th>
<th>Punishment</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Arson</td>
<td>Fine, labour VI years, labour II years, labour III years</td>
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<tr>
<td>2</td>
<td>Admission of vehicles</td>
<td>Fine, labour III years, labour IV years</td>
</tr>
<tr>
<td>3</td>
<td>Robbery</td>
<td>Fine, labour III years, labour I year</td>
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<tr>
<td>4</td>
<td>Burglary</td>
<td>Fine, labour III years, labour I year</td>
</tr>
<tr>
<td>5</td>
<td>Horse-breaking</td>
<td>Fine, labour IV years</td>
</tr>
<tr>
<td>6</td>
<td>Grand larceny</td>
<td>Fine, labour V years</td>
</tr>
<tr>
<td>7</td>
<td>Petty larceny</td>
<td>Fine, labour I year</td>
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<tr>
<td>8</td>
<td>Perjury</td>
<td>Fine, labour I year</td>
</tr>
<tr>
<td>9</td>
<td>Extortion</td>
<td>Fine, labour I year, labour I year</td>
</tr>
<tr>
<td>10</td>
<td>Seditious</td>
<td>Fine, labour I year</td>
</tr>
<tr>
<td>11</td>
<td>Apocryphal</td>
<td>Fine, labour I year</td>
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<tr>
<td>12</td>
<td>Heresy</td>
<td>Fine, labour I year</td>
</tr>
<tr>
<td>13</td>
<td>Abominable</td>
<td>Fine, labour III years, labour II years</td>
</tr>
<tr>
<td>14</td>
<td>Pardon</td>
<td>Fine, labour III years</td>
</tr>
</tbody>
</table>

Pardon
Pardon and privilege of clergy are proposed to be abolished; but if the verdict be against the defendant, the court in their discretion, may allow a new trial. No attainder to cause a corruption of blood, or forfeiture of dower. Slaves guilty of offences punishable in others by labour, to be transported to Africa, or elsewhere, as the circumstances of the time admit, there to be continued in slavery. A rigorous regimen proposed for those condemned to labour.

Another object of the revival is, to diffuse knowledge more generally through the mass of the people. This bill proposes to lay off every county into small districts of five or six miles square, called hundreds, and in each of them to establish a school for teaching reading, writing, and arithmetic. The tutor to be supported by the hundred, and every person in it entitled to send their children three years gratis, and as much longer as they please, paying for it. These schools to be under a visitor, who is annually to choose the boy, of best genius in the school, of those whose parents are too poor to give them further education, and to send him forward to one of the grammar schools, of which twenty are proposed to be erected in different parts of the country, for teaching Greek, Latin, geography, and the higher branches.
branches of numerical arithmetic. Of the boys thus sent in any one year, trial is to be made at the grammar schools one or two years, and the best genius of the whole selected, and continued six years, and the residue dismissed. By this means twenty of the best geniuses will be raked from the rubbish annually, and be instructed, at the public expence, so far as the grammar schools go. At the end of six years instruction, one half are to be discontinued (from among whom the grammar schools will probably be supplied with future masters); and the other half, who are to be chosen for the superiority of their parts and disposition, are to be sent and continued three years in the study of such sciences as they shall choose; at William and Mary college, the plan of which is proposed to be enlarged, as will be hereafter explained, and extended to all the useful sciences. The ultimate result of the whole scheme of education would be the teaching all the children of the state reading, writing, and common arithmetic; turning out ten annually of superior genius, well taught in Greek, Latin, geography, and the higher branches of arithmetic; turning out ten others annually, of still superior parts, who, to those branches of learning, shall have added such of the sciences as their genius
genius shall have led them to: the furnishing to the wealthier part of the people convenient schools, at which their children may be educated, at their own expense.—

The general objects of this law are to provide an education adapted to the years, to the capacity, and the condition of every one, and directed to their freedom and happiness. Specific details were not proper for the law. These must be the business of the visitors entrusted with its execution. The first stage of this education being the schools of the hundreds, wherein the great masses of the people will receive their instruction, the principal foundations of future order will be laid here. Instead therefore of putting the Bible and Testament into the hands of the children, at an age when their judgments are not sufficiently matured for religious enquiries, their memories may here be stored with the most useful facts from Grecian, Roman, European and American history. The first elements of morality too may be instilled into their minds; such as, when further developed as their judgments advance in strength, may teach them how to work out their own greatest happiness, by shewing them that it does not depend on the condition of life in which chance has placed them, but is always the result of a good
good conscience, good health, occupation, and freedom in all just pursuits.—Those whom either the wealth of their parents or the adoption of the state shall dispose to higher degrees of learning, will go on to the grammar schools, which constitute the next stage, there to be instructed in the languages. The learning Greek and Latin, I am told, is going into diffusion in Europe. I know not what their manners and occupations may call for: but it would be very ill-judged in us to follow their example in this instance. There is a certain period of life, say from eight to fifteen or sixteen years of age, when the mind, like the body, is not yet firm enough for laborious and close operations. If applied to such, it falls an early victim to premature exertion; exhibiting indeed at first, in these young and tender subjects, the flattering appearance of their being men while they are yet children, but ending in reducing them to be children when they should be men. The memory is then most susceptible and tenacious of impressions; and the learning of languages being chiefly a work of memory, it seems precisely fitted to the powers of this period, which is long enough too for acquiring the most useful languages ancient and modern. I do not pretend that language is science.
It is only an instrument for the attainment of science. But that time is not lost which is employed in providing tools for future operation; more especially as in this case the books put into the hands of the youth for this purpose may be such as will at the same time impress their minds with useful facts and good principles. If this period be suffered to pass in idleness, the mind becomes lethargic and impotent, as would the body if it inhabits if unexercised during the same time. The sympathy between body and mind during their rise, progress and decline, is to strict and obvious to endanger our being misled while we reason from the one to the other.—As soon as they are of sufficient age, it is supposed they will be sent on from the grammar schools to the university, which constitutes our third and last stage, there to study those sciences which may be adapted to their views.—By that part of our plan which prescribes the selection of the youths of genius from among the classics of the poor, we hope to avail the flate of those talents which nature has sown as liberally among the poor as the rich, but which perish without use, if not sought for and cultivated.—But of all the views of this law none is more important, none more legitimate, than that of rendering the people.
the safe, as they are the ultimate, guardians of their own liberty. For this purpose the reading in the first stage, where they will receive their whole education, is proposed, as has been said, to be chiefly historical. History by apprising them of the past will enable them to judge of the future; it will avail them of the experience of other times and other nations; it will qualify them as judges of the actions and designs of men; it will enable them to know ambition under every disguise it may assume; and knowing it, to defeat its views. In every government on earth is some trace of human weakness, some germ of corruption and degeneracy, which cunning will discover, and wickedness insensibly open, cultivate, and improve. Every government degenerates when trusted to the rulers of the people alone. The people themselves therefore are its only safe depositories. And to render even them safe their minds must be improved to a certain degree. This indeed is not all that is necessary, though it be essentially necessary. An amendment of our constitution must here come in aid of the public education. The influence over government must be shared among all the people. If every individual which composes their mass participates of the ultimate authority, the government...
ment will be safe; because the corrupting
the whole masses will exceed any private re-
sources of wealth: and public ones cannot
be provided but by levies on the people. In
this case every man would have to pay his
own price. The government of Great-Bri-
tain has been corrupted, because but one
man in ten has a right to vote for members
of parliament. The sellers of the govern-
ment therefore get nine-tenths of their price
clear. It has been thought that corruption
is restrained by confining the right of suf-
frage to a few of the wealthier of the people:
but it would be more effectually restrained
by an extension of that right to such num-
bers as would bid defiance to the means of
corruption.

Lastly, it is proposed, by a bill in this re-
vival, to begin a public library and gallery,
by laying out a certain sum annually in
books, paintings, and statues.

**QUERY XV.**

**THE colleges and public establishments, Colleges,**
**the roads, buildings, &c. ?**

The college of William and Mary is the
only public seminary of learning in this state.
It was founded in the time of king William
and queen Mary, who granted to it 20,000 acres of land, and a penny a pound duty on certain tobaccones exported from Virginia and Maryland, which had been levied by the statute of 25 Car. 2. The assembly also gave it, by temporary laws, a duty on liquors imported, and skins and furs exported. From these resources it received upwards of 3000l. communibus annis. The buildings are of brick, sufficient for an indifferent accommodation of perhaps an hundred students. By its charter it was to be under the government of twenty visitors, who were to be its legislators, and to have a president and six professors, who were incorporated. It was allowed a representative in the general assembly. Under this charter, a professorship of the Greek and Latin languages, a professorship of mathematics, one of moral philosophy, and two of divinity, were established. To these were annexed, for a fifth professorship, a considerable donation by Mr. Boyle of England, for the instruction of the Indians, and their conversion to Christianity. This was called the professorship of Brafferton, from an estate of that name in England, purchased with the monies given. The admission of the learners of Latin and Greek filled the college with children. This rendering it disagreeable and degrading to young
young gentlemen already prepared for entering on the sciences, they were discouraged from resorting to it, and thus the schools for mathematics and moral philosophy, which might have been of some service, became of very little. The revenues too were exhausted in accommodating those who came only to acquire the rudiments of science. After the present revolution, the visitors, having no power to change those circumstances in the constitution of the college which were fixed by the charter, and being therefore confined in the number of professorships, undertook to change the objects of the professorships. They excluded the two schools for divinity, and that for the Greek and Latin languages, and substituted others; so that at present they stand thus:

A Professorship for Law and Police:

Anatomy and Medicine:

Natural Philosophy and Mathematics:

Moral Philosophy, the Law of Nature and Nations, the Fine Arts:

Modern Languages:

For the Brafferton.

And it is proposed, so soon as the legislature shall have leisure to take up this subject, to desire authority from them to increase the number of professorships, as well for the purpose of subdividing those already instituted,
as of adding others for other branches of science. To the professorships usually established in the universities of Europe, it would seem proper to add one for the ancient languages and literature of the North, on account of their connection with our own language, laws, customs, and history. The purposes of the Brafferton institution would be better answered by maintaining a perpetual mission among the Indian tribes, the object of which, besides instructing them in the principles of Christianity, as the founder requires, should be to collect their traditions, laws, customs, languages, and other circumstances which might lead to a discovery of their relation with one another, or descent from other nations. When these objects are accomplished with one tribe, the missionary might pass on to another.

The roads are under the government of the county courts, subject to be controlled by the general court. They order new roads to be opened wherever they think them necessary. The inhabitants of the county are by them laid off into precincts, to each of which they allot a convenient portion of the public roads to be kept in repair. Such bridges as may be built without the assistance of artificers, they are to build. If the stream be such as to require a bridge of regular workmanship,
workmanship, the court employs workmen to build it, at the expense of the whole county. If it be too great for the county, application is made to the general assembly, who authorize individuals to build it, and to take a fixed toll from all passengers, or give sanction to such other proposition as to them appears reasonable.

Ferries are admitted only at such places as are particularly pointed out by law, and the rates of ferriage are fixed.

Taverns are licensed by the courts, who fix their rates from time to time.

The private buildings are very rarely constructed of stone or brick; much the greatest proportion being of scantling and boards, plastered with lime. It is impossible to devise things more ugly, uncomfortable, and happily more perishable. There are two or three plans, on one of which, according to its size, most of the houses in the state are built. The poorest people build huts of logs, laid horizontally in pens, stopping the interstices with mud. These are warmer in winter, and cooler in summer, than the more expensive constructions of scantling and plank. The wealthy are attentive to the raising of vegetables, but very little so to fruits. The poorer people attend to neither, living principally on milk and animal diet. This is
the more inexcusable, as the climate requires indispensably a free use of vegetable food, for health as well as comfort, and is very friendly to the raising of fruits.—The only public buildings worthy mention are the Capitol, the Palace, the College, and the Hospital for Lunatics, all of them in Williamsburg, heretofore the seat of our government. The Capitol is a light and airy structure, with a portico in front of two orders, the lower of which, being Doric, is tolerably just in its proportions and ornaments, save only that the intercolonations are too large. The upper is Ionic, much too small for that on which it is mounted, its ornaments not proper to the order, nor proportioned within themselves. It is crowned with a pediment, which is too high for its span. Yet, on the whole, it is the most pleasing piece of architecture we have. The Palace is not handsome without: but it is spacious and commodious within, is prettily situated, and, with the grounds annexed to it, is capable of being made an elegant seat. The College and Hospital are rude, misshapen piles, which, but that they have roofs, would be taken for brick-kilns. There are no other public buildings but churches and courthouses, in which no attempts are made at elegance. Indeed it would not be easy to execute
execute such an attempt, as a workman could scarcely be found here capable of drawing an order. The genius of architecture seems to have shed its maledictions over this land. Buildings are often erected, by individuals, of considerable expence. To give these symmetry and taste would not increase their cost. It would only change the arrangement of the materials, the form and combination of the members. This would often cost less than the burthen of barbarous ornaments with which these buildings are sometimes charged. But the first principles of the art are unknown, and there exists scarcely a model among us sufficiently chaste to give an idea of them. Architecture being one of the fine arts, and as such within the department of a professor of the college, according to the new arrangement, perhaps a spark may fall on some young subjects of natural taste, kindle up their genius, and produce a reformation in this elegant and useful art. But all we shall do in this way will produce no permanent improvement to our country, while the unhappy prejudice prevails that houses of brick or stone are less wholesome than those of wood. A dew is often observed on the walls of the former in rainy weather, and the most obvious solution is, that the rain has penetrated through these walls. The fol-

lowing
lowing facts however are sufficient to prove the error of this solution. 1. This dew on the walls appears when there is no rain, if the state of the atmosphere be moist. 2. It appears on the partition as well as the exterior walls. 3. So also on pavements of brick or stone. 4. It is more copious in proportion as the walls are thicker; the reverse of which ought to be the case, if this hypothesis were just. If cold water be poured into a vessel of stone, or glass, a dew forms instantly on the outside; but if it be poured into a vessel of wood, there is no such appearance. It is not supposed, in the first case, that the water has exuded through the glass, but that it is precipitated from the circumambient air; as the humid particles of vapour, passing from the boiler of an alembic through its refrigerant, are precipitated from the air, in which they were suspended, on the internal surface of the refrigerant. Walls of brick or stone act as the refrigerant in this instance. They are sufficiently cold to condense and precipitate the moisture suspended in the air of the room, when it is heavily charged therewith. But walls of wood are not so. The question then is, whether air in which this moisture is left floating, or that which is deprived of it, be most wholesome? In both cases the remedy is
is easy. A little fire kindled in the room, whenever the air is damp, prevents the precipitation on the walls: and this practice, found healthy in the warmest as well as coldest seasons, is as necessary in a wooden as in a stone or a brick house. I do not mean to say, that the rain never penetrates through walls of brick. On the contrary I have seen instances of it. But with us it is only through the northern and eastern walls of the house, after a north-easterly storm, these being the only ones which continue long enough to force through the walls. This however happens too rarely to give a just character of unwholesomeness to such houses. In a house, the walls of which are of well-burnt brick and good mortar, I have seen the rain penetrate through but twice in a dozen or fifteen years. The inhabitants of Europe, who dwell chiefly in houses of stone or brick, are surely as healthy as those of Virginia. These houses have the advantage too of being warmer in winter and cooler in summer than those of wood; of being cheaper in their first construction, where lime is convenient, and infinitely more durable. The latter consideration renders it of great importance to eradicate this prejudice from the minds of our countrymen. A country whose buildings are of wood, can

S

never
never increase in its improvements to any considerable degree. Their duration is high-
ly estimated at 50 years. Every half cen-
tury then our country becomes a tabula rasa,
whereon we have to set out anew, as in the
first moment of seating it. Whereas when
buildings are of durable materials, every new
edifice is an actual and permanent acqui-
sition to the state, adding to its value as well
as to its ornament.

QUER Y XVI.

Tories.

THE measures taken with regard of the
estates and possessions of the rebels, com-
monly called Tories?

A Tory has been properly defined to be a
traitor in thought, but not in deed. The
only description, by which the laws have en-
deavoured to come at them, was that of non-
jurors, or persons refusing to take the oath
of fidelity to the state. Persons of this de-
scription were at one time subjected to dou-
taxation, at another to treble, and lastly were
allowed retribution, and placed on a level
with good citizens. It may be mentioned
as a proof both of the lenity of our govern-
ment, and unanimity of its inhabitants, that
though
though this war has now raged near seven
years, not a single execution for treason has
taken place.

Under this query I will state the mea-
sures which have been adopted as to British
property, the owners of which stand on a
much fairer footing than the Tories. By our
laws, the same as the English in this respect,
no alien can hold lands, nor alien enemy
maintain an action for money, or other move-
able thing. Lands acquired or held by aliens
become forfeited to the state; and, on an
action by an alien enemy to recover money,
or other moveable property, the defendant
may plead that he is an alien enemy. This
extinguishes his right in the hands of the
debtor or holder of his moveable property.
By our separation from Great-Britain, British
subjects became aliens, and being at war, they
were alien enemies. Their lands were of
course forfeited, and their debts irrecovera-
ble. The assembly however passed laws, at
various times, for saving their property. They
first sequestrated their lands, slaves, and other
property on their farms, in the hands of com-
misstoners, who were mostly the confidenti-
ial friends or agents of the owners, and di-
rected their clear profits to be paid into the
treasury: and they gave leave to all persons
owing debts to British subjects to pay them
also
also into the treasury. The monies so to be brought in were declared to remain the property of the British subject, and, if used by the state, were to be repaid, unless an improper conduct in Great-Britain should render a detention of it reasonable. Depreciation had at that time, though unacknowledged and unperceived by the Whigs, begun in some small degree. Great sums of money were paid in by debtors. At a later period, the assembly, adhering to the political principles which forbid an alien to hold lands in the state, ordered all British property to be sold; and, become sensible of the real progress of depreciation, and of the losses which would thence occur, if not guarded against, they ordered that the proceeds of the sales should be converted into their then worth in tobacco, subject to the future direction of the legislature. This act has left the question of retribution more problematical. In May 1780 another act took away the permission to pay into the public treasury debts due to British subjects.
QUERY XVII.

The different religions received into that religion:

The first settlers in this country were emigrants from England, of the English church, just at a point of time when it was flushed with complete victory over the religious of all other persuasions. Possessed, as they became, of the powers of making, administering, and executing the laws, they shewed equal intolerance in this country with their Presbyterian brethren, who had emigrated to the northern government. The poor Quakers were flying from persecution in England. They cast their eyes on these new countries as asylums of civil and religious freedom; but they found them free only for the reigning sect. Several acts of the Virginia assembly of 1659, 1662, and 1693, had made it penal in parents to refuse to have their children baptized; had prohibited the unlawful assembling of Quakers; had made it penal for any master of a vessel to bring a Quaker into the state; had ordered those already here, and such as should come thereafter, to be imprisoned till they should abjure the country; provided a milder punish-
ment for their first and second return, but death for their third; had inhibited all persons from suffering their meetings in or near their houses, entertaining them individually, or disposing of books which supported their tenets. If no capital execution took place here, as did in New-England, it was not owing to the moderation of the church, or spirit of the legislature, as may be inferred from the law itself; but to historical circumstances which have not been handed down to us. The Anglicans retained full possession of the country about a century. Other opinions began then to creep in, and the great care of the government to support their own church, having begotten an equal degree of indolence in its clergy, two-thirds of the people had become dissenters at the commencement of the present revolution. The laws indeed were still oppressive on them, but the spirit of the one party had subsided into moderation, and of the other had risen to a degree of determination which commanded respect.

The present state of our laws on the subject of religion is this. The convention of May 1776, in their declaration of rights, declared it to be a truth, and a natural right, that the exercise of religion should be free; but when they proceeded to form on that declaration the ordinance of taking up every bill of rights, and every faction, they permitted our religious sects to found them. Wherever, when they were called upon by the general assembly to pass all acts of particular criminal the majority of the clergy, and the people in religion, were to remain at present upheld by the community of assembly. At this was a capital of contempt. Its definition of judges, before the statute established it, by decree of the court of admiralty, was deemed heretical, determined by authority of the clergy, or by one council, or by force in the grounds of 1765 and plain.
declaration the ordinance of government, instead of taking up every principle declared in the bill of rights, and guarding it by legislative sanction, they passed over that which asserted our religious rights, leaving them as they found them. The same convention, however, when they met as a member of the general assembly in October 1776, repealed all acts of parliament which had rendered criminal the maintaining any opinions in matters of religion, the forbearing to repair to church, and the exercising any mode of worship; and suspended the laws giving salaries to the clergy, which suspension was made perpetual in October 1779. Statutory oppressions in religion being thus wiped away, we remain at present under those only imposed by the common law, or by our own acts of assembly. At the common law, herey was a capital offence, punishable by burning. Its definition was left to the ecclesiastical judges, before whom the conviction was, till the statute of the 1 El. c. 1. circumscribed it, by declaring, that nothing should be deemed herey, but what had been so determined by authority of the canonical scriptures, or by one of the four first general councils, or by some other council having for the grounds of their declaration the express and plain words of the scriptures.
Hereby, thus circumscribed, being an offence at the common law, our act of assembly of October 1777, c. 17. gives cognizance of it to the general court, by declaring, that the jurisdiction of that court shall be general in all matters at the common law. The execution is by the writ De haeresi comburendo. By our own act of assembly of 1705, c. 30, if a person brought up in the Christian religion denies the being of a God, or the Trinity, or affirms there are more Gods than one, or denies the Christian religion to be true, or the scriptures to be of divine authority, he is punishable on the first offence by incapacity to hold any office or employment ecclesiastical, civil, or military; on the second by disability to sue, to take any gift or legacy, to be guardian, executor, or administrator, and by three years imprisonment, without bail. A father's right to the custody of his own children being founded in law on his right of guardianship, this being taken away, they may of course be severed from him, and put, by the authority of a court, into more orthodox hands. This is a summary view of that religious slavery, under which a people have been willing to remain, who have lavished their lives and fortunes for the establishment of their civil freedom.

* The error seems not sufficiently eradicated.

* Furneaux passim.
cated, that the operations of the mind, as well as the acts of the body, are subject to the coercion of the laws. But our rulers can have authority over such natural rights only as we have submitted to them. The rights of conscience we never submitted, we could not submit. We are answerable for them to our God. The legitimate powers of government extend to such acts only as are injurious to others. But it does me no injury for my neighbour to say there are twenty gods, or no god. It neither picks my pocket nor breaks my leg. If it be said, his testimony in a court of justice cannot be relied on, reject it then, and be the stigma on him. Constraint may make him worse by making him a hypocrite, but it will never make him a truer man. It may fix him obstinately in his errors, but will not cure them. Reason and free enquiry are the only effectual agents against error. Give a loose to them, they will support the true religion, by bringing every false one to their tribunal, to the test of their investigation. They are the natural enemies of error, and of error only. Had not the Roman government permitted free enquiry, Christianity could never have been introduced. Had not free enquiry been indulged, at the æra of the reformation, the corruptions of Christianity could
could not have been purged away. If it be restrained now, the present corruptions will be protected, and new ones encouraged. Was the government to prescribe to us our medicine and diet, our bodies would be in such keeping as our souls are now. Thus in France the emetic was once forbidden as a medicine, and the potatoe as an article of food. Government is just as infallible too when it fixes systems in physics. Galileo was sent to the inquisition for affirming that the earth was a sphere: the government had declared it to be as flat as a trencher, and Galileo was obliged to abjure his error. This error however at length prevailed, the earth became a globe, and Descartes declared it was whirled round its axis by a vortex. The government in which he lived was wise enough to see that this was no question of civil jurisdiction, or we should all have been involved by authority in vortices. In fact, the vortices have been exploded, and the Newtonian principle of gravitation is now more firmly established, on the basis of reason, than it would be were the government to step in, and to make it an article of necessary faith. Reason and experiment, have been indulged, and error has fled before them. It is error alone which needs the support of government. Truth can stand by itself.

The parliament of Paris forbade, on pain of death, any doctrine to be taught contrary to Aristotle's. 3. Millet, Hist. de France 306.
itself. Subject opinion to coercion: whom will you make your inquisitors? Fallible men; men governed by bad passions, by private as well as public reasons. And why subject it to coercion? To produce uniformity. But is uniformity of opinion desirable? No more than of face and stature. Introduce the bed of Procrustes then, and as there is danger that the large men may beat the small, make us all of a size, by lopping the former and stretching the latter. Difference of opinion is advantageous in religion. The several sects perform the office of a Cen- for morum over each other. Is uniformity attainable? Millions of innocent men, women, and children, since the introduction of Christianity, have been burnt, tortured, fined, imprisoned; yet we have not advanced one inch towards uniformity. What has been the effect of coercion? To make one half the world fools, and the other half hypocrites. To support roguery and error all over the earth. Let us reflect that it is inhabited by a thousand millions of people. That these profess probably a thousand different systems of religion. That ours is but one of that thousand. That if there be but one right, and ours that one, we should wish to see the 999 wandering sects gathered into the fold of truth. But against such a majority we cannot
cannot effect this by force. Reason and persuasion are the only practicable instruments. To make way for these, free enquiry must be indulged, and how can we with others to indulge it while we refuse it ourselves. But every state, says an inquisitor, has established some religion. No two, say I, have established the same. Is this a proof of the infallibility of establishments? Our sister states of Pennsylvania and New York, however, have long subsisted without any establishment at all. The experiment was new and doubtful when they made it. It has answered beyond conception. They flourish infinitely. Religion is well supported; of various kinds, indeed, but all good enough; all sufficient to preserve peace and order: or if a sect arises, whose tenets would subvert morals, good sense has fair play, and reasons and laughs it out of doors, without suffering the state to be troubled with it. They do not hang more malefactors than we do. They are not more disturbed with religious dissensions. On the contrary, their harmony is unparalleled, and can be ascribed to nothing but their unbounded tolerance, because there is no other circumstance in which they differ from every nation on earth. They have made the happy discovery, that the way to silence religious disputes, is to take no notice of them. Let
us too give this experiment fair play, and get rid, while we may, of those tyrannical laws. It is true, we are as yet secured against them by the spirit of the times. I doubt whether the people of this country would suffer an execution for heresy, or a three years imprisonment for not comprehending the mysteries of the Trinity. But is the spirit of the people an infallible, a permanent reliance? Is it government? Is this the kind of protection we receive in return for the rights we give up? Besides, the spirit of the times may alter, will alter. Our rulers will become corrupt, our people careless. A single zealot may commence persecutor, and better men be his victims. It can never be too often repeated, that the time for fixing every essential right on a legal basis is while our rulers are honest, and ourselves united. From the conclusion of this war we shall be going down hill. It will not then be necessary to refer every moment to the people for support. They will be forgotten, therefore, and their rights disregarded. They will forget themselves, but in the sole faculty of making money, and will never think of uniting to effect a due respect for their rights. The shackles, therefore, which shall not be knocked off at the conclusion of this war, will remain on us long, will be made heavier
heavier and heavier, till our rights shall revive or expire in a convulsion.

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**QUERY XVIII.**

Manners. **THE particular customs and manners that may happen to be received in that state?**

It is difficult to determine on the standard by which the manners of a nation may be tried, whether *catholic,* or *particular.* It is more difficult for a native to bring to that standard the manners of his own nation, familiarized to him by habit. There must doubtless be an unhappy influence on the manners of our people produced by the existence of slavery among us. The whole commerce between master and slave is a perpetual exercise of the most boisterous passions, the most unremitting despotism on the one part, and degrading submisions on the other. Our children see this, and learn to imitate it; for man is an imitative animal. This quality is the germ of all education in him. From his cradle to his grave he is learning to do what he sees others do. If a parent could find no motive either in his philanthropy or his self-love, for restraining the
the intemperance of passion towards his slave, it should always be a sufficient one that his child is present. But generally it is not sufficient. The parent storms, the child looks on, catches the lineaments of wrath, puts on the same airs in the circle of smaller slaves, gives a loose to his worst of passions, and thus nursed, educated, and daily exercised in tyranny, cannot but be stamped by it with odious peculiarities. The man must be a prodigy who can retain his manners and morals unaltered by such circumstances. And with what execration should the statesman be loaded, who permitting one half the citizens thus to trample on the rights of the other, transforms those into despots, and these into enemies, destroys the morals of the one part, and the amor patriae of the other. For if a slave can have a country in this world, it must be any other in preference to that in which he is born to live and labour for another: in which he must lock up the faculties of his nature, contribute as far as depends on his individual endeavours to the evanishment of the human race, or entail his own miserable condition on the endless generations proceeding from him. With the morals of the people, their industry also is destroyed. For in a warm climate, no man will labour for himself
self who can make another labour for him. This is so true, that of the proprietors of slaves a very small proportion indeed are ever seen to labour. And can the liberties of a nation be thought secure when we have removed their only firm basis, a conviction in the minds of the people that these liberties are of the gift of God? That they are not to be violated but with his wrath? Indeed I tremble for my country when I reflect that God is just: that his justice cannot sleep for ever: that considering numbers, nature and natural means only, a revolution of the wheel of fortune, an exchange of situation, is among possible events: that it may become probable by supernatural interference! The Almighty has no attribute which can take side with us in such a contest. —But it is impossible to be temperate and to pursue this subject through the various considerations of policy, of morals, of history natural and civil. We must be contented to hope they will force their way into every one’s mind. I think a change already perceptible, since the origin of the present revolution. The spirit of the matter is abating, that of the slave rising from the duff, his condition mollifying, the way I hope preparing, under the auspices of heaven, for a total emancipation, and that this is disposed,
disposed, in the order of events, to be with the content of the matters, rather than by their extirpation.

**QUERY XIX.**

**THE present state of manufactures, commerce, interior and exterior trade?**

We never had an interior trade of any importance. Our exterior commerce has suffered very much from the beginning of the present contest. During this time we have manufactured within our families the most necessary articles of clothing. Those of cotton will bear some comparison with the same kinds of manufacture in Europe; but those of wool, flax and hemp are very coarse, unsightly, and unpleasant: and such is our attachment to agriculture, and such our preference for foreign manufactures, that be it wise or unwise, our people will certainly return as soon as they can, to the raising raw materials, and exchanging them for finer manufactures than they are able to execute themselves.

The political economists of Europe have established it as a principle that every state should...
should endeavour to manufacture for itself, for the tools for this, the natural and this principle, like many others, will be transferred to America, without calculating the difference of circumstance which should of necessity produce a difference of result. In Europe the lands are either cultivated, or locked up against the cultivator. Manufactures must therefore be resorted to of necessity, not of choice, to support the surplus of their population; it is a good thing. But we have an immensity of land to measure its value by courting the industry of the husbandman, or have land to improve it by the industry of our citizens and handicraft men. Is it best then that all our citizens should be employed in its improvement? Or that one half should be called off from that to execute manufactures and handicraft arts for the other? Those who labour in the earth are chosen people of God, if ever he had a right to carry precedency there, than he that labours with his peculiar deposit for substantial and genuine virtue. It is the focus in which he keeps alive that sacred fire, which otherwise might escape from the face of the earth. Corruption of morals in the mass of cultivators is a phenomenon of which no age nor nation has furnished an example. It is the mark set on those, who not looking up to heaven, to their own soil and industry, does the husbandman, for their subsistence, depend for it on the casualties and caprice of customers. Dependance beggars sublimity and venality, suffocates the germ of virtue.
and prepares fit tools for the designs of ambition. This, the natural progress and consequence of the arts, has sometimes perhaps been retarded by accidental circumstances: but, generally speaking, the proportion which the aggregate of the other classes of citizens bears in any state to that of its husbandmen, is the proportion of its unfound to its healthy parts, and is a good-enough barometer whereby to measure its degree of corruption. While we have land to labour then, let us never wish to see our citizens occupied at a work-bench, or twirling a distaff. Carpenters, masons, smiths, are wanting in husbandry: but, for the general operations of manufacture, let our work-shops remain in Europe. It is better to carry provisions and materials to workmen there, than bring them to the provisions and materials, and with them their manners and principles. The loss by the transportation of commodities across the Atlantic will be made up in happiness and permanence of government. The mobs of great cities add just so much to the support of pure government, as foreshoos to the strength of the human body. It is the manners and spirit of a people which preserve a republic in vigour. A degeneracy in these is a canker which soon eats to the heart of its laws and constitution.
QUERY XX.

A NOTICE of the commercial productions particular to the state, and of those objects which the inhabitants are obliged to get from Europe and from other parts of the world.

Before the present war we exported, communibus annis, according to the best information I can get, nearly as follows:
YXX.

<table>
<thead>
<tr>
<th>ARTICLES</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tobacco</td>
<td>1,550,000 bushels</td>
</tr>
<tr>
<td>Indian corn</td>
<td>30,000 bushels</td>
</tr>
<tr>
<td>Shipping goods</td>
<td>400,000 barrels</td>
</tr>
<tr>
<td>Masts, planks, flax, wafes</td>
<td>50,000 barrels</td>
</tr>
<tr>
<td>Tar, pitch, turpentine, flax, wafes, etc.</td>
<td>180,000 barrels</td>
</tr>
<tr>
<td>Pork, mullets, racoons, foxes</td>
<td>4,000 barrels</td>
</tr>
<tr>
<td>Sheep, horses</td>
<td>1,000 barrels</td>
</tr>
<tr>
<td>Beef</td>
<td>5,000 barrels</td>
</tr>
<tr>
<td>Sturgeon, whitefish, hemp, cotton, pig-iron</td>
<td>1,000 barrels</td>
</tr>
<tr>
<td>Brandy from peaches, and apples, and whiskey</td>
<td>1,000 barrels</td>
</tr>
</tbody>
</table>

This sum is equal to 850,000. Virginia money, 600,000 guineas.
In the year 1758 we exported seventy thousand hogheads of tobacco, which was the greatest quantity ever produced in this country in one year. But its culture was fast declining at the commencement of this war and that of wheat taking its place: and it must continue to decline on the return of peace. I suspect that the change in the temperature of our climate has become sensible to that plant, which, to be good, requires an extraordinary degree of heat. But it requires still more indispensably an uncommon fertility of soil: and the price which it commands at market will not enable the planter to produce this by manure. Was the supply still to depend on Virginia and Maryland alone, as its culture becomes more difficult, the price would rise, so as to enable the planter to surmount those difficulties and to live. But the western country on the Mississippi, and the midlands of Georgia, having fresh and fertile lands in abundance, and a hotter sun, will be able to underfell these two states, and will oblige them to abandon the raising tobacco altogether. And a happy obligation for their fate will be. It is a culture productive of infinite wretchedness. Those employed in it are in a continued state of exertion beyond the powers of nature to support. Little

Food
food of any kind is raised by them; so that
the men and animals on these farms are badly
fed, and the earth is rapidly impoverished.
The cultivation of wheat is the reverse in
every circumstance. Besides cloathing the
earth with herbage, and preserving its fer-
tility, it feeds the labourers plentifully, re-
quires from them only a moderate toil, ex-
cept in the season of harvest, raises great
numbers of animals for food and service, and
diffuses plenty and happiness among the
whole. We find it easier to make an hun-
dred bushels of wheat than a thousand weight
of tobacco, and they are worth more when
made. The weevil indeed is a formidable
obstacle to the cultivation of this grain with
us. But principles are already known which
must lead to a remedy. Thus a certain de-
gree of heat, to wit, that of the common
air in summer, is necessary to hatch the egg.
If subterranean granaries, or others, there-
fore, can be contrived below that tempera-
ture, the evil will be cured by cold. A de-
gree of heat beyond that which hatches the
egg, we know will kill it. But in aiming
at this we easily run into that which produces
putrefaction. To produce putrefaction, how-
ever, three agents are requisite, heat, mois-
ture, and the external air. If the absence
of any one of these be secured, the other
T 4
two
two may safely be admitted. Heat is the one we want. Moisture then, or external air, must be excluded. The former has been done by exposing the grain in kilns to the action of fire, which produces heat, and extracts moisture at the same time: the latter, by putting the grain into hogheads, covering it with a coat of lime, and heading it up. In this situation its bulk produces a heat sufficient to kill the egg; the moisture is suffered to remain indeed, but the external air is excluded. A nice operation yet has been attempted; that is, to produce an intermediate temperature of heat between that which kills the egg, and that which produces putrefaction. The threshing the grain as soon as it is cut, and laying it in its chaff in large heaps, has been found very nearly to hit this temperature, though not perfectly, nor always. The heap generates heat sufficient to kill most of the eggs, whilst the chaff commonly restrains it from rising into putrefaction. But all these methods abridge too much the quantity which the farmer can manage, and enable other countries to undersell him which are not infested with this insect. There is still a desideratum then to give with us decisive triumph to this branch of agriculture over that of tobacco.—The culture of wheat, by enlarging our pasture,
will render the Arabian horse an article of very considerable profit. Experience has shewn that ours is the particular climate of America where he may be raised without degeneracy. Southwardly the heat of the sun occasions a deficiency of pasturage, and northwardly the winters are too cold for the short and fine hair, the particular sensibility and constitution of that race. Animals transplanted into unfriendly climates, either change their nature and acquire new fences against the new difficulties in which they are placed, or they multiply poorly and become extinct. A good foundation is laid for their propagation here by our possessing already great numbers of horses of that blood, and by a decided taste and preference for them established among the people. Their patience of heat without injury, their superior wind, fit them better in this and the more southern climates even for the drudgeries of the plough and waggon. Northwardly they will become an object only to persons of taste and fortune, for the saddle and light carriages. To these, and for these uses, their fleetness and beauty will recommend them.—Besides these there will be other valuable substitutes when the cultivation of tobacco shall be discontinued, such as cot-

ton
ton in the eastern parts of the state, and hemp and flax in the western.

It is not easy to say what are the articles either of necessity, comfort, or luxury, which we cannot raise, and which we therefore shall be under a necessity of importing from abroad, as every thing harder than the olive, and as hardy as the fig, may be raised here in the open air. Sugar, coffee and tea, indeed, are not between these limits, and habit having placed them among the necessaries of life with the wealthy part of our citizens, as long as these habits remain, we must go for them to those countries which are able to furnish them.

**Query XXI.**

The weights, measures, and the currency of the hard money? Some details relating to the exchange with Europe?

Our weights and measures are the same which are fixed by acts of parliament in England,—How it has happened that in this as well as the other American states the nominal value of coin was made to differ from what it was in the country we had left, and
In the states where the Dollar is valued at of the coincidence of their currency with the Greek and Roman money is so singular as to be worthy notice. It is found a suspicion that this object may have had some influence in fixing our money at this particular point, at a time when the value of Greek and Roman currency was more justly estimated than at this day. The Penny lawful is precisely the Roman as which was 10 of which equal to their unit of ten Pence lawful made the Attic Drachma. In the latter ages of their history the money of these two people were interwoven so as to make parts of the same series, which were in some degree decimal.

The as (L. as just Libralis) had latterly an ounce of copper (called Libella) = 1.8. lawful.

10 as made the Denarius (X.) or Attic Drachma = 10.

100 denarii made the Mina or Pondus = 1000 or 5.3. 4.

The denarius having been divided into fourths of 3, each, their fourth was called a Sesterius or Nummus (L.L. or H.S.) = 0.2.

100 Sesterces made an Aureus (latt.) = 58. 1. 10.

1000 Sesterces made the Sesterthum = 10. 8. 4.

The Libra = 96. X. = 2. lawful.

The Talent of Silver = 60. Mina = 2.500.

The Talent of Gold was the dupli of the Talent of Silver at the proportion of 8 for 1, as among the Romans = 2,500.

and was the Mutilary of the Libra or valued at 8 for 1, as among moderns = 1000. Libra = 4000.

It is understood that the Attic drachm of silver was exactly our Dram Troy, of 60, gr. The Denarius of the Romans was the 1 part of their Ounce, which is supposed to have been exactly our Avoirdupois ounce, but this is of 437. 97 gr. Troy, which would make the Roman Denarius 62. 47. Consequently
more than the Attic drachm, contrary to the testimony of antiquity, that the Demeter and Dracon were equal. We may very probab-
ly conjecture that our Troy weight is taken from the Greeks, from whom our Physicians derive their science. In copying their recipes, they would of course preserve their weight which fix the quantum & proportion of ingredients. We may as probably affirm that our Avoir-
dupois weight is taken from the Romans, from whom through their colonies & conquests in France, Spain, Germany, Britain, we derive our Agriculture & Commerce. Accord-
ingly we observe that, while we weigh our physic by the Troy or Grecian weight, we use the Avoirdupois or Roman for the productions of agriculture & general articles of commerce. And since Antiquity, affirms that these two series were united by the equa-
city of the Dracon & Demeter, we must conclude that in progress of time, they have become a little separated in use with us, to work as past as before noted.

But the point at which their separation has been arrested, and fixed is a very re-
markable one. 1000 avoirdupois make exactly a cubic foot of water, this integral, decimal, & cubical relation induces a presumption that while deciding among the var-
rieties of uncertainties which during the various ages of the arts, we know had crept into the weights & measures of England, they had adop-
ted for their standard those which stood so conveniently connected through the medium of a natural element, always at hand to be appealed to.

The avoirdupois being thus fixed at the three and th part of a cubic foot of water, the Win-
chester bushel, of 2150, a cubic inch, filled with water, would weigh 77.7 of avoirdupois.
and filled with wheat of statute quality, weighed 22. amidst the various discovered between the standard weight of Avoirdupois T Troy in their different departures, it would be observed that all of them were a little over or under this proportion. This would suffice to give this proportion the preference and to fix the standard relation between the Avoirdupois T Troy pounds at that which Nature has established between the weights of water and wheat: and the Troy grain, 5760 of which make the pound Troy, would be so adjusted as that 7000 of them would make the pound Avoirdupois, for 7000:5760::77.7:64. Exactly the same proportion is known to exist between the dry & liquid measures, for the corn gallon contains 272. cubic inches of the antient liquid gallon of Guildhall 224 cubic inches, so that the system of weights & measures Avoirdupois T Troy, dry & liquid are found to be in the simple relation of the weights & measures of the two obvious and natural subjects water & wheat, that is to say, the Pound Avoirdupois : Pound Troy:: the weight of water: weight of wheat :: the bulk of the corn gallon: the bulk of the liquid gallon or 7000:5760::77.7:64::272:224.

These weights & measures seem to have been so combined as to render it immaterial whether a commodity was dealt out by weight or measure, for the dry gallon of wheat, the liquid one of wine were of the same weight, V the Avoirdupois pound of wheat V the Troy pound of wine were of the same measure, a more natural, accurate, & accurate reconciliation of the two systems of Greece & Rome which happened to be found in use could not have been imagined; V the extension of this connection, from weights to measures, to coming and done so naturally by our lawfull currency, which makes the penny of 6. grains of silver, as was the Roman AS, has completed the system.
It is true, we find no trace either in English or American history, that there were the views which determined the relations existing between our weights, measures and monies. But it is more difficult to conceive that such a series of combinations should have been merely accidental, than that History should have been silent about them.

I am aware that there are differences of opinion as to the ancient weights and coins. Those here stated are taken from Boswell's "Kempe", Ainsworth, "A Dictionary of the English Language", and the "Encyclopaedia", and are as likely to have prevailed with our ancestors as the opinions opposed to them.
to differ among ourselves too, I am not able to say with certainty. I find that in 1631 our house of burgesses desired of the privy council in England, a coin debased to twenty-five per cent: that in 1645 they forbid dealing by barter for tobacco, and established the Spanish piece of eight at six shillings, as the standard of their currency: that in 1655 they changed it to five shillings sterling. In 1680 they sent an address to the king, in consequence of which, by proclamation in 1683, he fixed the value of French crowns, rixdollars and pieces of eight at six shillings, and the coin of New-England at one shilling. That in 1710, 1714, 1727, and 1762, other regulations were made, which will be better presented to the eye stated in the form of a table as follows:
<table>
<thead>
<tr>
<th>Year</th>
<th>Rate of Silver</th>
<th>Rate of Guinea</th>
<th>Rate of Coin</th>
</tr>
</thead>
<tbody>
<tr>
<td>1765</td>
<td>1/3 dwt.</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1767</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1769</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1771</td>
<td>5/6 dwt.</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1773</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1775</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1777</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Guineas, British gold coin not milled, coined gold of Spain, and French chelines; shillings, milled silver of the empire; pieces of eight of Mexico, Seville, and Portugal, ducatons of Flanders, French florins, or silver Louis, cruzeiros of Portugal, and old rixdollars. 

See note on p. 283.
The first symptom of the depreciation of our present paper-money, was that of silver dollars selling at six shillings, which had before been worth but five shillings and ninepence. The assembly thereupon raised them by law to six shillings. As the dollar is now likely to become the money-unit of America, as it passes at this rate in some of our sister-states, and as it facilitates their computation in pounds and shillings, &c. conversely, this seems to be more convenient than it's former denomination. But as this particular coin now stands higher than any other in the proportion of 133½ to 125, or 16 to 15, it will be necessary to raise the others in the same proportion.

**Query XXII.**

The public income and expences?

The nominal amount of these varying constantly and rapidly, with the constant and rapid depreciation of our paper-money, it becomes impracticable to say what they are. We find ourselves cheated in every essay by the depreciation intervening between the declaration of the tax and its actual receipt. It will therefore be more satisfactory to consider
fider what our income may be when we shall find means of collecting what the people may spare. I should estimate the whole taxable property of this state at an hundred millions of dollars, or thirty millions of pounds our money. One per cent on this, compared with any thing we ever yet paid, would be deemed a very heavy tax. Yet I think that those who manage well, and use reasonable economy, could pay one and a half per cent, and maintain their household comfortably in the mean time, without aliening any part of their principal, and that the people would submit to this willingly for the purpose of supporting their present contest. We may say then, that we could raise, and ought to raise, from one million to one million and a half of dollars annually, that is from three hundred to four hundred and fifty thousand pounds, Virginia money.

Of our expenses it is equally difficult to give an exact state, and for the same reason. They are mostly stated in paper money, which varying continually, the legislature endeavours at every session, by new corrections, to adapt the nominal sums to the value it is wished they should bear. I will state them therefore in real coin, at the point at which they endeavour to keep them.
<table>
<thead>
<tr>
<th>Position</th>
<th>Expenses</th>
</tr>
</thead>
<tbody>
<tr>
<td>The annual expences of the general</td>
<td>20,000</td>
</tr>
<tr>
<td>assembly are about</td>
<td></td>
</tr>
<tr>
<td>The governor</td>
<td>3,333 3/4</td>
</tr>
<tr>
<td>The council of state</td>
<td>10,666 2/3</td>
</tr>
<tr>
<td>Their clerks</td>
<td>1,166 2/3</td>
</tr>
<tr>
<td>Eleven judges</td>
<td>1,000</td>
</tr>
<tr>
<td>The clerk of the chancery</td>
<td>666 2/3</td>
</tr>
<tr>
<td>The attorney general</td>
<td>1,000</td>
</tr>
<tr>
<td>Three auditors and a solicitor</td>
<td>5,333 1/4</td>
</tr>
<tr>
<td>Their clerks</td>
<td>2,000</td>
</tr>
<tr>
<td>The treasurer</td>
<td>2,000</td>
</tr>
<tr>
<td>His clerks</td>
<td>2,000</td>
</tr>
<tr>
<td>The keeper of the public jail</td>
<td>1,000</td>
</tr>
<tr>
<td>The public printer</td>
<td>1,666 2/3</td>
</tr>
<tr>
<td>Clerks of the inferior courts</td>
<td>43,333 1/4</td>
</tr>
<tr>
<td>Public levy: this is chiefly for the</td>
<td></td>
</tr>
<tr>
<td>expences of criminal justice</td>
<td>40,000</td>
</tr>
<tr>
<td>County levy, for bridges, court houses,</td>
<td>40,000</td>
</tr>
<tr>
<td>prisons, &amp;c.</td>
<td></td>
</tr>
<tr>
<td>Members of congress</td>
<td>7000</td>
</tr>
<tr>
<td>Quota of the Federal civil lift, supposed</td>
<td>13,000</td>
</tr>
<tr>
<td>3/5 of about 78,000 dollars</td>
<td></td>
</tr>
<tr>
<td>Expences of collection, 6 per cent.</td>
<td>12,310</td>
</tr>
<tr>
<td>on the above</td>
<td></td>
</tr>
<tr>
<td>The clergy receive only voluntary</td>
<td></td>
</tr>
<tr>
<td>contributions: suppose them on</td>
<td></td>
</tr>
<tr>
<td>an average 1/2 of a dollar a tythe</td>
<td>23,000</td>
</tr>
<tr>
<td>on 200,000 tythes</td>
<td></td>
</tr>
</tbody>
</table>
Contingencies, to make round numbers not far from truth — 7,523. 

250,000 Dollars, or 53,571 guineas. This estimate is exclusive of the military expense. That varies with the force actually employed, and in time of peace will probably be little or nothing. It is exclusive also of the public debts, which are growing while I am writing, and cannot therefore be now fixed. So it is of the maintenance of the poor, which being merely a matter of charity, cannot be deemed expended in the administration of government. And if we strike out the 25,000 dollars for the services of the clergy, which neither makes part of that administration, more than what is paid to physicians or lawyers, and being voluntary, is either much or nothing as every one pleases, it leaves 225,000 dollars, equal to 48,208 guineas, the real cost of the apparatus of government with us. This, divided among the actual inhabitants of our country, comes to about two-fifths of a dollar, 21d sterling, or 42 sols, the price which each pays annually for the protection of the residue of his property, that of his person, and the other advantages of a free government. The public revenues of Great Britain divided in like manner on its
its inhabitants would be sixteen times greater. Deducting even the double of the expences of government, as before estimated, from the million and a half of dollars which we before supposed might be annually paid without distress, we may conclude that this state can contribute one million of dollars annually towards supporting the federal army, paying the federal debt, building a federal navy, or opening roads, clearing rivers, forming safe ports, and other useful works.

To this estimate of our abilities, let me add a word as to the application of them, if, when cleared of the present contest, and of the debts with which that will charge us, we come to measure force hereafter with any European power. Such events are devoutly to be deprecated. Young as we are, and with such a country before us to fill with people and with happiness, we should point in that direction the whole generative force of nature, wasting none of it in efforts of mutual destruction. It should be our endeavour to cultivate the peace and friendship of every nation, even of that which has injured us most, when we shall have carried our point against her. Our interest will be to throw open the doors of commerce, and to knock off all its shackles, giving perfect freedom to all persons for the vent of what-

U
ever they may choose to bring into our ports, and asking the same in theirs. Never was so much false arithmetic employed on any subject, as that which has been employed to persuade nations that it is their interest to go to war. Were the money which it has cost to gain, at the close of a long war, a little town, or a little territory, the right to cut wood here, or to catch fish there, expended in improving what they already possess, in making roads, opening rivers, building ports, improving the arts, and finding employment for their idle poor, it would render them much stronger, much wealthier and happier. This I hope will be our wisdom. And, perhaps, to remove as much as possible the occasions of making war, it might be better for us to abandon the ocean altogether, that being the element whereon we shall be principally exposed to jostle with other nations: to leave to others to bring what we shall want, and to carry what we can spare. This would make us invulnerable to Europe, by offering none of our property to their prize, and would turn all our citizens to the cultivation of the earth; and, I repeat it again, cultivators of the earth are the most virtuous and independent citizens. It might be time enough to seek employment for them at sea, when the land no longer offers it. But the actual has
bits of our countrymen attach them to commerce. They will exercise it for themselves. Wars then must sometimes be our lot; and all the wise can do, will be to avoid that half of them which would be produced by our own follies, and our own acts of injustice; and to make for the other half the best preparations we can. Of what nature should these be? A land army would be useless for offence, and not the best nor safest instrument of defence. For either of these purposes, the sea is the field on which we should meet an European enemy. On that element it is necessary we should possess some power. To aim at such a navy as the greater nations of Europe possess, would be a foolish and wicked waste of the energies of our countrymen. It would be to pull on our own heads that load of military expense, which makes the European labourer go supperless to bed, and moistens his bread with the sweat of his brows. It will be enough if we enable ourselves to prevent insults from those nations of Europe which are weak on the sea, because circumstances exist, which render even the stronger ones weak as to us. Providence has placed their richest and most defenceless possessions at our door; has obliged their most precious commerce to pass as it were in review before us. To protect this, or to
affair us, a small part only of their naval force will ever be risqued across the Atlantic. The dangers to which the elements expose them here are too well known, and the greater dangers to which they would be exposed at home, were any general calamity to involve their whole fleet. They can attack us by detachment only; and it will suffice to make ourselves equal to what they may detach. Even a smaller force than they may detach will be rendered equal or superior by the quickness with which any check may be repaired with us, while losses with them will be irreparable till too late. A small naval force then is sufficient for us, and a small one is necessary. What this should be, I will not undertake to say. I will only say, it shoule by no means be so great as we are able to make it. Suppose the million of dollars, or 300,000 pounds, which Virginia could annually spare without distress, to be applied to the creating a navy. A single year’s contribution would build, equip, man, and send to sea a force which should carry 300 guns. The rest of the confederacy, exerting themselves in the same proportion, would equip in the same time 1500 guns more. So that one year’s contributions would set up a navy of 1800 guns. The British ships of the line average 76 guns;
guns; their frigates 38, 1800 guns then
would form a fleet of 30 ships, 18 of which
might be of the line, and 12 frigates. All-
owing 8 men, the British average, for every
gun, their annual expense, including sub-
sistence, cloathing, pay, and ordinary repairs,
would be about 1280 dollars for every gun,
or 2,304,000 dollars for the whole. I state
this only as one year's possible exertion, with-
out deciding whether more or less than a
year's exertion should be thus applied.

The value of our lands and slaves, taken
conjointly, doubles in about twenty years.
This arises from the multiplication of our
slaves, from the extension of culture, and
increased demand for lands. The amount
of what may be raised will of course rise in
the same proportion.

QUERY XXII.

THE histories of the state, the memorials Histories,
published in its name in the time of its being
a colony, and the pamphlets relating to its
interior or exterior affairs present or antient?
Captain Smith, who next to Sir Walter
Raleigh may be considered as the founder
of our colony, has written its history, from
the
the first adventures to it till the year 1624. He was a member of the council, and afterwards president of the colony; and to his efforts principally may be ascribed its support against the opposition of the natives. He was honest, sensible, and well informed; but his style is barbarous and uncouth. His history, however, is almost the only source from which we derive any knowledge of the infancy of our state.

The reverend William Stith, a native of Virginia, and president of its college, has also written the history of the same period, in a large octavo volume of small print. He was a man of classical learning, and very exact, but of no taste in style. He is inelegant, therefore, and his details often too minute to be tolerable, even to a native of the country, whose history he writes.

Beverley, a native also, has run into the other extreme; he has comprised our history, from the first propositions of Sir Walter Raleigh to the year 1700, in the hundredth part of the space which Stith employs for the fourth part of the period.

Sir William Keith has taken it up at its earliest period, and continued it to the year 1725. He is agreeable enough in style, and passes over events of little importance. Of course he is short, and would be preferred by a foreigner.

During
During the regal government, some contest arose on the exacting of an illegal fee by governor Dinwiddie, and doubtless there were others on other occasions not at present recollected. It is supposed, that these are not sufficiently interesting to a foreigner to merit a detail.

The petition of the council and burgesses of Virginia to the king, their memorial to the lords, and remonstrance to the commons in the year 1764, began the present contest; and these having proved ineffectual to prevent the passage of the Stamp-act, the resolutions of the house of burgesses of 1765 were passed, declaring the independance of the people of Virginia on the parliament of Great-Britain, in matters of taxation. From that time till the declaration of independance by congress in 1776, their journals are filled with assertions of the public rights.

The pamphlets published in this state on the controverted question were,


1774, * A summary View of the Rights of British America.

Considerations, &c. by Robert Carter Nicholas.

* By the author of these Notes.

Since
Since the declaration of independance this state has had no controversy with any other, except with that of Pennsylvania, on their common boundary. Some papers on this subject passed between the executive and legislative bodies of the two states, the result of which was a happy accommodation of their rights.

To this account of our historians, memorials, and pamphlets, it may not be unuseful to add a chronological catalogue of American state-papers, as far as I have been able to collect their titles. It is far from being either complete or correct. Where the title alone, and not the paper itself, has come under my observation, I cannot answer for the exactness of the date. Sometimes I have not been able to find any date at all, and sometimes have not been satisfied that such a paper exists. An extensive collection of papers of this description has been for some time in a course of preparation by a gentleman fully equal to the task, and from whom, therefore, we may hope ere long to receive it. In the mean time accept this as the result of my labours, and as closing the tedious detail which you have so undesignedly drawn upon yourself.

* Mr. Hazard.
Pro Johanne Caboto et filiis suis 1496, Mar. 5. 11. H. 7.
septimi. 3. Hakluyt's voyages 5.
De potestatibus ad terras incognitas investigandum. 13. Ry.
mer. 37.
Commision de François I. à Jac. 1540, Oa. 17.
quès Cartier pour l'establissement du Canada. L'Escarbot.
An act against the exaction of 1548, 2. E. 6.
money, or any other thing, by any officer for license to traffique into Iceland and Newfoundland, made in An. 2.
Edward sexti. 3. Hakl. 131.
The letters-patent granted by 1578, June 11, 20. El.
her Majestie to Sir Humphrey Gilbert, knight, for the inhabiting and planting of our people in America. 3. Hakl. 135.
Letters-patents of Queen Eliza-1583, Feb. 6.
beth to Adrian Gilbert and others, to discover the North-west passage to China. 3. Hakl.
96.
The
1584, Mar. 25. 26 El. The letters-patents granted by the Queen's majesty to M. Walter Raleigh, now knight, for the discovering and planting of new lands and countries, to continue the space of 6 years and no more. 3. Hakl. 243.


1606, Apr. 10. 4. Jac. 1. Letters-patent to Sir Thomas Gates, Sir George Somers and others, for two several colonies to be made in Virginia and other parts of America. Stith. Append. No. 1.

1607, Mar. 9. 4. Jac. 1. An ordinance and constitution enlarging the council of the two colonies in Virginia and America, and augmenting their authority, M. S.

1609, May 23. 7. Jac. 1. The second charter to the treasurer and company for Virginia.
nia, erecting them into a body

Letters-patents to the E. of 1610, Apr. 10. Jac. 1.
Northampton, granting part
of the island of Newfoundland.
1. Harris. 861.

A third charter to the treasurer 1611, Mar. 12. 9. Jac. 1,
and company for Virginia.—
Stith. App. 3.

A commission to Sir Walter Ra- 1617,
leigh. Qu.?
Commisio specialis concernens 1620, Apr. 7. 18. Jac. 1,
le garbling herbae Nicotianae.
17. Rym. 190.

A proclamation for restraint of 1620, June 29. 18. Jac. 1.
the disordered trading of to-
bacco. 17. Rym. 233.

A grant of New England to the 1620, Nov. 3. Jac. 1
Council of Plymouth.

the treasurer, council and com-
pany in England, for a council
of state and general assembly

de l'Amerique. 193.

A proclamation prohibiting in- 1622, Nov. 6. 20. Jac. 1.
terloping and disorderly trad-
ing to New England in Ame-
rica. 17. Rym. 416.

De

1623.

A grant to Sir Edmund Ploidy, of New Albion. Mentioned in Smith's examination. 82.


1625, Mar. 2. 22. Jac. 1. A proclamation for the utter pro- hibiting the importation and use of all tobacco which is not of the proper growth of the colony of Virginia and the Somer islands, or one of them. 17. Rym. 668.


1630, April 30. Conveyance of Nova Scotia (Port-royal excepted) by Sir William Alexander to Sir Claude St. Etienne Lord of la Tour and of Uarre and to his son Sir Charles de St. Etienne Lord of St. Dennis court, on condition that they continue subjects to the king of Scotland under the great seal of Scotland.


3. Rushw. 82.


1630, Car. 1. A grant of Connecticut by the council of Plymouth to the E. of Warwick.

1630, Car. 1. A confirmation by the crown of the grant of Connecticut [said to
to be in the petty bag office in England].

the E. of Warwick to Lord Say and Seal and others. Smith's examination, App. No. 1.

A special commission to Edward 1631, June 27. 7. Car. 1.
Earle of Dorset and others for the better plantation of the colony of Virginia. 19. Ry. 301.

Litere continentes promissionem 1631, June 29. 7. Car. 1.
regis ad tradendum castrum et habitacionem de Kebec in Canada ad regem Francorum.

Traité entre le roy Louis XIII., 1632, Mar. 29. 8. Car. 1.
et Charles roi d'Angleterre pour la restitution de la nouvelle France, la Cadie et Canada et des navires et marchandises pris de part et d'autre. Fait a St. Germain. 19.


A grant of Maryland to Cæcilius 1632, June 20. 8. Car. 1.
Calvert, Baron of Baltimore in Ireland,

ginia against the grant to Lord Baltimore.

Order
1633, July 3. Order of council upon the dispute between the Virginia planters and lord Baltimore. Votes of repref. of Pennsyl-


1633, Sept. 23. 9. Car. 1. A special commission to Thomas Young to search, discover and find out what parts are not yet inhabited in Virginia and America and other parts thereunto adjoining. 19. Ry. 472.


1634, May 19. 10. Car. 1. A proclamation concerning the landing of tobacco, and also forbidding the planting thereof in the king's dominions. 19. Ry. 553.

1634. Car. 1. A commission to the Archbishop of Canterbury and 11 others,
for governing the American colonies.
A commission concerning tobacco. 1634, June 19. 10. Car. 1. co. M. S.
A commission from Lord Say. 1635, July 18. 11 Car. 2.
and Seal, and others, to John Winthrop to be governor of Connecticut. Smith's App.
A grant to Duke Hamilton. 1635, Car. 2.
Harvey militi pro meliori regimine coloniae in Virginia.
20. Ry. 3.
domin Goring et aliis concernente venditionem de tobacco absque licentia regia.
A proclamation against the disorderly transporting his Majesty's subjects to the plantations within the parts of America. 20. Ry. 143. 3. Rush. 499.
to lay 8 ships now in the Thames from going to New-England. 3. Rush. 409.
X A war-


1638. Apr. 6. 14. Car. 1. An order of the king and council that the attorney-general draw up a proclamation to prohibit transportation of passengers to New-England without license. 3. Ruth. 718.


1639, Aug. 19. 15. Car. 1. A proclamation declaring his majesty's pleasure to continue his commission and letters patents for licensing retailers of tobacco. 20. Ry. 348.

A proclamation concerning re-1639, Car. 1.
tailors of tobacco. 4. Ruhl.

concili pro Virginia. 20. Rv.

Articles of union and confed-1643, Car. 1.
ecy entered into by Massa-
chusetts, Plymouth, Connecti-
cut and New-haven. 1. Neale.

Deed from George Fenwick to 1644, Car. 1.
the old Connecticut jurisdic-
tion.

An ordinance of the lords and
commons assembled in parlia-
ment, for exempting from
custom and imposition all
commodities exported for, or
imported from New-England,
which has been very prosperi-
ous and without any public
charge to this state, and is
likely to prove very happy
for the propagation of the
gospel in those parts. Tit. in
Amer. Library 90. 5. No date.

But seems by the neighbour-
ing articles to have been in

X 2 An

1644, Aug. 7. Car. 2. An act for the advancing and regulating the trade of this commonwealth. Tit. Amer. libr. 99. 9.


Instructions for Captain Robert

Dennis, Mr. Richard Bennet, Mr. Thomas Stagge, and Capt. William Clabourne, appointed commissioners for the reducing of Virginia and the inhabitants thereof to their due obedience to the commonwealth of England.

Thurloe's state papers. 197.

An act for increase of shipping and encouragement of the navigation of this nation.

S Enabled's acts. 1449.

Articles agreed on and concluded at James city in Virginia for the surrendering and settling of that plantation under the obedience and government of the commonwealth of England, by the commissioners of the council of state, by authority of the parliament of England, and by the grand assembly of the governor, council, and burgesses of that state. M. S. [Ante, p. 201.]

An act of indemnity made at the surrender of the country

[of Virginia.] [Ante. p. 206.]
1654, Aug. 16.
Capitulation de Port-Royal, mem. Am. 507.

1655. Car. 2. A proclamation of the protector relating to Jamaica. 3. Thurl. 75.


1655, Oct. 8. 7; Car. 2. An instrument made at the council of Jamaica, Oct. 8, 1655, for the better carrying on of affairs there. 4. Thurl. 71.

1655, Nov. 3.

1656, Mar. 27. 8. Car. 2. The assembly at Barbadoes to the Protector. 4. Thurl. 651.

1656, Aug. 9.

1656, Car. 2. A paper concerning the advancement of trade. 5. Thurl. 80.

1656, Car. 2. A brief narration of the English rights to the Northern parts of America. 5. Thurl. 81.
Mr. R. Bennet and Mr. S. Mat- 1666, Oct. 10. 8. Car. 2.
chew to Secretary Thurloe. 5.
Thurl. 482.

timore's patent, and reasons why the government of Mary-
land should not be put into his hands. 5. Thurl. 482.

A paper relating to Maryland. 1666, Oct. 10. 8. Car. 2,
5. Thurl. 483.

A breviet of the proceedings of 1666, Oct. 10. 8. Car. 2.
the lord Baltimore and his of-
ficers and compliers in Mary-
land against the authority of
the parliament of the com-
monwealth of England and
against his highness the lord
protector's authority laws and
government. 5. Thurl. 486.

The assembly of Virginia to 1666, Oct. 15. 8. Car. 2.
sectary Thurlow. 5. Thurl,
497.

The governor of Barbadoes to 1657, Apr. 4. 9. Car. 2.
the protector. 6. Thurl. 169.

Petition of the general court at 1661,
Hartford upon Connecticut for a charter. Smith's exam.
App. 4.

Charter of the colony of Connec-

X 4 The

The concessions and agreement of the lords proprietors of the province of New Cañares, or New-Jersey, to and with all and every of the adventurers and all such as shall settle or plant there. Smith’s New-Jersey. App. i.

A grant of the colony of New-York to the Duke of York.

A commission to Colonel Nichols and others to settle disputes in New-England.


The commission to Sir Robert Carre and others to put the Duke of York in possession of New-York, New-Jersey, and all other lands thereunto appertaining,

Sir


New-Jersey by the Duke of York to Lord Berkeley and Sir George Carteret.

A conveyance of the Delaware counties to William Penn.


Treaty between the English and 1664, Aug. 27.

Dutch for the surrender of the New-Netherlands. Sm. N. Jerf. 42.

Nicol's commission to Sir Robert Carre to reduce the Dutch on Delaware bay. Sm. N. J. 47.

Instructions to Sir Robert Carre for reducing of Delaware bay and settling the people there under his majesty's obedience. Sm. N. J. 47.

Articles of capitulation between 1664, Oct. 1.

Sir Robert Carre and the Dutch and Swedes on Delaware bay and Delaware river. Sm. N. J. 49.

The


1668, April 21. Directions from the governor and council of New York for
a better settlement of the government on Delaware. Sm. N. J. 514
Lovelace's order for customs at 1668. the Hoarkills, Sm. N. J. 55.
A confirmation of the grant of 16— May 3. 21. Car. 2.
the northern neck of Virginia to the Earl of St. Alban's,
Lord Berkeley, Sir William Morston and John Tretheway.
Incorporation of the town of 1678.
Newcastle or Amstil.
A demise of the colony of Virgi— 1673, Feb. 25. 25. Car. 2
nia to the Earl of Arlington and Lord Culpeper for 31
years, M. S.
Treaty at London between king 1673-4.
Charles II. and the Dutch.
Article VI.
Remonstrances against the two grants of Charles II. of Northern and Southern Virginia.
Men's, Beverley. 65.
Sir George Carteret's instructions to Governor Carteret.
Governor Andros's proclamation 1674, Nov. 9.
on taking possession of Newcastle for the Duke of York.
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1675, Oct. 1. 27. Car. 2. A proclamation for prohibiting the importation of commodities of Europe into any of his majesty's plantations in Africa, Asia, or America, which were not laden in England; and for putting all other laws relating to the trade of the plantations in effectual execution.

1676, Mar. 3. The concessions and agreements of the proprietors, freeholders and inhabitants of the province of West-New-Jersey in America. Sm. N. J. App. 2.

1676, July 1. A deed quintipartite for the division of New-Jersey.


1676, Oct. 10. 28. Car. 2. The charter of king Charles II. to his subjects of Virginia. M. S.

1676. Cautionary epistle from the trustees of Byllinge's part of New-Jersey. Sm. N. J. 84.
Indian deed for the lands betwixt Rankokas creek and Timber creek, in New-Jersey.

Indian deed for the lands from 1677, Sept. 27.

Oldman’s creek to Timber creek, in New-Jersey.

Indian deed for the lands from 1677, Oct. 10.

Rankokas creek to Assunpink creek, in New-Jersey.

The will of Sir George Carteret, 1678, Dec. 5.

sole proprietor of East-Jersey, ordering the same to be sold.

An order of the king in council 1680, Feb. 16.

for the better encouragement of all his majesty’s subjects in their trade to his majesty’s plantations, and for the better information of all his majesty’s loving subjects in these matters. Lond. Gaz. No. 1596.

Title in Amer. library. 134. 6.

Arguments against the customs demanded in New-Weft-Jersey by the governor of New-York, addressed to the Duke’s commissioners. Sm. N. J. 117.

Extracts of proceedings of the committee of trade and plantations; copies of letters, reports, &c. between the board of
of trade, Mr. Penn, Lord Bal-
timore and Sir John Werden,
in the behalf of the Duke of
York and the settlement of
the Pennsylvania boundaries
by the L. C. J. North. Votes

1681, Mar. 4. Car. 2. A grant of Pennsylvania to Wil-
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Pennylv. xviii.

1681, Apr. 2. The king’s declaration to the
inhabitants and planters of
the province of Pennsylvania.

1681, July 11. Certain conditions or concessions
agreed upon by William Penn,
proprietary and governor of
Pennsylvania, and those who
are the adventurers and pur-
chasers in the same province.

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Sm. N. J. 126.

1681-2, Jan. 14. The methods of the commis-
sioners for settling and regu-
lation of lands in New-Jersey.
Sm. N. J. 130.

1681-2, Feb. 1. 2. Indentures of lease and releas-
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Carteret
Carteret to William Penn and others, conveying East-Jersey.

The Duke of York's fresh grant 1682, Mar. 14, of East-New-Jersey to the proprietors.


A commission to Thomas Lord 1682, Nov. 27. 34. Car. 2. Culpeper to be lieutenant and governor-general of Virginia.

M. S.

An act of union for annexing 1682, 10th month, 6th day, and uniting of the counties of Newcastle, Jones's and Whorekill's alias Deal, to the pro-
province of Pennsylvania, and
of naturalization of all for-
reigners in the province and
counties aforesaid.

An act of settlement.
The frame of the government
of the province of Pennsyl-
vania and territories thereunto
annexed in America.

1683, Apr. 17. 27. 1684, Feb. 12.
May 30. 1685, Mar. 17.
July 2, 16, 23.
Sept. 30.
Dec. 9.

Proceedings of the committee of
trade and plantations in the
dispute between Lord Balti-
more and Mr. Penn. Vo. R.
P. xiii—xviii.

1683, July 17.

A commission by the proprietors
of East-New-Jersey to Ro-
bert Barclay to be governor.
Sm. N. J. 166.

1683, July 26. 35. Car. 2.

An order of council for issuing
a quo warranto against the
charter of the colony of the
Massachusetts's bay in New-
England, with his majesty's
declaration that in case the said
corporation of Massachusetts's
bay shall before prosecution
had upon the same quo war-
ranto
ranto make a full submission
and entire resignation to his
royal pleasure, he will then
regulate their charter in such a
manner as shall be for his ser-
vice and the good of that co-

dony. Title in Amer. library.
139. 6.

A commission to Lord Howard 1683, Sept. 28. 35. Car. 3,
of Effingham to be lieutenant
and governor-general of Vir-
ginia. M. S.

The humble address of the chief 1684, May 3,
governor, council and repre-
sentatives of the island of
Nevis, in the West-Indies,
presented to his majesty by Co-
lonel Netheway and Captain
Jefferson, at Windfor, May
3, 1684. Title in Amer. libr.
142. 3. cites Lond. Gaz. No.
1927.

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day.

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rica between France and Eng-
p. 44. 2. Mem. Am. 40.

By the king, a proclamation 1687, Jan. 20.
for the more effectual reduc-

ing
ing and suppressing of pirates and privateers in America, as well on the sea as on the land in great numbers, committing frequent robberies and piracies, which hath occasioned a great prejudice and obstruction to trade and commerce, and given a great scandal and disturbance to our government in those parts. Tide Amer. libr. 147. 2. cites Lond. Gaz. No. 2315.

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Governor Coxe’s declaration to the council of proprietors of West-Jersey. Sm. N. J. 196.

1687, Dec. 16.

Provisional treaty of Whitehall concerning America between France and England. 2. Mem. de l’Am. 89.

1687.

Governor Coxe’s narrative relating to the division line, directed to the council of proprietors
The representation of the council of proprietors of West-Jersey to Governor Burnet. Sm. App. No. 5.
The remonstrance and petition of the inhabitants of East-New-Jersey to the king. Sm. App. No. 8.
The memorial of the proprietors of East-New-Jersey to the Lords of trade. Sm. App. No. 9.
Agreement of the line of partition between East and West-New-Jersey. Sm. N. J. 196.
Convenience of the government of West-Jersey and territories by Dr. Coxe, to the West-Jersey society.
A charter granted by King William and Queen Mary to the inhabitants of the province of Massachusetts's bay in New-England. 2. Mem. de l'Am.
The frame of government of the province of Pennsylvania and the territories thereunto belong.
belonging, passed by Governor Markham, Nov. 7, 1696.

1699, July 5.
The opinion and answer of the lords of trade to the memorial of the proprietors of East-New-Jersey. Sm. App. No. 10.

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The memorial of the proprietors of East-New-Jersey to the Lords of trade. Sm. App. No. 11.


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1701, Aug. 12.
Representation of the lords of 1701, Oct. 2.
trade to the lords justices.

A treaty with the Indians. 1701.

Report of lords of trade to king 1701-2, Jan. 6.
William of draughts of a
commission and instructions
for a governor of New-Jersey.
Sm. N. J. 262.

Surrender from the proprietors 1702, Apr. 15.
of E. and W. N. Jersey of
their pretended right of go-
vernment to her majesty Q.
Anne. Sm. N. J. 211.

The Queen's acceptance of the 1702, Apr. 17.
surrender of government of
East and West-Jersey. Sm.
N. J. 219.

Instructions to lord Cornbury. 1702, Nov. 16.
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A commission from Queen Anne 1703, Dec. 5
to Lord Cornbury, to be
captain-general and governor
in chief of New-Jersey. Sm.
N. J. 220.

Recognition by the council of 1703, June 87.
proprietors of the true bound-
dary of the deeds of Sept. 10
and Oct. 10, 1677. (New-Jer-
sley). Sm. N. J. 96.

Y 3 Indian
1703. Indian deed for the lands above the falls of the Delaware in West-Jersey.

1704, June 18. Indian deed for the lands at the head of Rankokus river in West-Jersey.

1704, June 18. A proclamation by Queen Anne for settling and ascertaining the current rates of foreign coins in America. Sm. N. J. 281.


1707. An answer by the council of proprietors for the western division of New-Jersey, to questions, proposed to them by Lord Cornbury. Sm. N. J. 285.

1708-9, Feb. 28. Instructions to Colonell Vetch in his negotiations with the governors of America. Sm. N. J. 364.

Earl of Dartmouth's letter to 1710, Aug., governor Hunter.

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France. 6. Lamberty, 669.

Réponses de la France aux de-1711, Oà. 8.
mandes préliminaires de la
681. 2. Mem. Amer. 344.

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Am. 356.

The queen's instructions to the 1711, Dec. 23.
Bishop of Bristol and Earl of
Strafford, her plenipotentiaries, to treat of a general peace. 6. Lamberty, 744.

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the Marquis de Torci, with
regard to North America, to
commerce, and to the suspension of arms. 7. Recueil de
Lamberty, 161. 2. Mem. de
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1719, Aug. 19.


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1713, Mar. 31.


2713, Apr. 11.

A treaty with the Indians, 1786.
The petition of the representa- 1788, Jan.
tives of the province of New- Jersey, to have a distinct go-
vernor. Sm. N. J. 421.
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ment of Connecticut to that
of New-York.
The charter granted by George II. 1790, June 9-10. G. 2.
for Georgia. 4. Mem. del’Am.
617.
Petition of Lord Fairfax, that a 1783.
commission might issue for
running and marking the di-
viding line between his dis-
trict and the province of Vir-
ginia.
Order of the king in council for 1783, Nov. 29.
Commissioners to survey and
settle the said dividing line
between the proprietary and
royal territory.
Report of the lords of trade re- 1786, Aug. 5.
lating to the separating the
government of the province
of New-Jersey from New-
Survey and report of the com- 1787, Aug. 10.
missoners appointed on the
part of the crown to settle
7
1737, Aug. 11.
Survey and report of the commissioners appointed on the part of Lord Fairfax to settle the line between the crown and him.

1738, Dec. 21.
Order of reference of the surveys between the crown and Lord Fairfax to the council for plantation affairs.

1744, June
Treaty with the Indians of the 6 nations at Lancaster.

1745, Apr. 6.
Report of the council for plantation affairs, fixing the head springs of Rappahannock and Patowmac, and a commission to extend the line.

1745, Apr. 11.
Order of the king in council confirming the said report of the council for plantation affairs.

1748, Apr. 30.
Articles préliminaires pour parvenir à la paix, signés à Aix-la-Chapelle entre les ministres de France, de la Grande-Bretagne, & des Provinces-Unies des Pays-Bas. 2. Mem. de l'Am. 159.

1748, May 21.
Declaration des ministres de France, de la Grande-Bretagne,
tagne, & des Provinces-Unies
des Pays-Bas, pour rectifier
les articles I. & II. des pré-
The general and definitive treaty 1748, Oà. 7-18. 28. G. 2.
of peace concluded at Aix-la-
Chapelle. Lond. Mag. 1748.
A treaty with the Indians. 1754.
A conference between Governor 1758, Aug. 7.
Bernard and Indian nations at
Burlington. Sm. N. J. 449.
A conference between Governor 1758, Oà. 8.
Denny, Governor Bernard and
others, and Indian nations at
Eaflow. Sm. N. J. 455.
The capitulation of Niagara. 1759, July 25. 33. G. 2.
The king’s proclamation pro-
mising lands to fouldiers.
The definitive treaty concluded 1763, Feb. 10. 3. G. 3.
149.
A proclamation for regulating 1763, Oà. 7. G. 3.
the cessions made by the last
Gram. 623.
The king’s proclamation against 1763.
settling on any lands on the
waters, westward of the Al-
leghaney,

Deed
1768, Nov. 3.

Deed from the six nations of Indians to William Trent and others for lands betwixt the Ohio and Monongahela. View of the title to Indiana. Phil. Styner and Cist. 1776.

1768, Nov. 5.

Deed from the six nations of Indians to the crown for certain lands and settling a boundary. M. S.
APPENDIX, No. I.

The preceding sheets having been submitted to my friend Mr. Charles Thomson, Secretary of Congress, he has furnished me with the following observations, which have too much merit not to be communicated.

(1.) p. 24. Besides the three channels of communication mentioned between the western waters and the Atlantic, there are two others, to which the Pennsylvanians are turning their attention; one from Presque-île, on Lake Erie, to Le Bœuf, down the Allegheny to Kiskiminitas, then up the Kiskiminitas, and from thence, by a small portage, to Juniata, which falls into the Susquehanna: the other from Lake Ontario to the East Branch of the Delaware, and down that to Philadelphia. Both these are said to be very practicable: and, considering the enterprising temper of the Pennsylvanians, and particularly of the merchants of Philadelphia, whose object is centered in promoting the commerce and trade of one city, it is not improbable...
bable but one or both of these communications will be opened and improved.

(2.) p. 28. The reflections I was led into on viewing this passage of the Potowmac through the Blue ridge were, that this country must have suffered some violent convulsion, and that the face of it must have been changed from what it probably was some centuries ago: that the broken and ragged faces of the mountain on each side the river; the tremendous rocks, which are left with one end fixed in the precipice, and the other jutting out, and seemingly ready to fall for want of support; the bed of the river for several miles below obstructed, and filled with the loose stones carried from this mound; in short, every thing on which you cast your eye evidently demonstrates a disruption and breach in the mountain, and that, before this happened, what is now a fruitful vale, was formerly a great lake or collection of water, which possibly might have here formed a mighty cascade, or had its vent to the ocean by the Susquehanna, where the Blue ridge seems to terminate. Besides this, there are other parts of this country which bear evident traces of a like convulsion. From the best accounts I have been able to obtain, the place where the Delaware now flows through
through the Kittatinny mountain, which is a continuation of what is called the North ridge, or mountain, was not its original course, but that it passed through what is now called 'the Wind-gap,' a place several miles to the westward, and above an hundred feet higher than the present bed of the river. This Wind-gap is about a mile broad, and the stones in it such as seem to have been washed for ages by water running over them. Should this have been the case, there must have been a large lake behind that mountain, and by some uncommon swell in the waters, or by some convulsion of nature, the river must have opened its way through a different part of the mountain, and meeting there with less obstruction, carried away with it the opposing mounds of earth, and deluged the country below with the immense collection of waters to which this new passage gave vent. There are still remaining, and daily discovered, innumerable instances of such a deluge on both sides of the river, after it passed the hills above the falls of Trenton, and reached the champaign. On the New-Jersey side, which is flatter than the Pennsylvanian side, all the country below Crosswick hills seems to have been overflowed to the distance of from ten to fifteen miles back from the river, and to have acquired a new soil.
foil by the earth and clay brought down and mixed with the native sand. The spot on which Philadelphia stands evidently appears to be made ground. The different strata through which they pass in digging to water, the acorns, leaves, and sometimes branches, which are found above twenty feet below the surface, all seem to demonstrate this. I am informed that at York town in Virginia, in the bank of York river, there are different strata of shells and earth, one above another, which seem to point out that the country there has undergone several changes; that the sea has, for a succession of ages, occupied the place where dry land now appears; and that the ground has been suddenly raised at various periods. What a change would it make in the country below, should the mountains at Niagara, by any accident, be clef't asunder, and a passage suddenly opened to drain off the waters of Erie and the Upper lakes! While ruminating on these subjects, I have often been hurried away by fancy, and led to imagine, that what is now the bay of Mexico, was once a campaign country; and that from the point or cape of Florida, there was a continued range of mountains through Cuba, Hispaniola, Porto rico, Martinique, Guadalupe, Barbadoes, and Trinidad, till it reached the coast of...
of America, and formed the shores which bounded the ocean, and guarded the country behind: that, by some convulsion or shock of nature, the sea had broken through these mounds, and deluged that vast plain, till it reached the foot of the Andes; that being there heaped up by the trade-winds, always blowing from one quarter, it had found its way back, as it continues to do, through the gulf between Florida and Cuba, carrying with it the loom and sand it may have scooped from the country it had occupied, part of which it may have deposited on the shores of North America, and with part formed the banks of Newfoundland.—But these are only the visions of fancy.

[3.] p. 57. There is a plant, or weed, called the *James town weed, of a very singular quality. The late Dr. Bond informed me, that he had under his care a patient, a young girl, who had put the seeds of this plant into her eye, which dilated the pupil to such a degree, that she could see in the dark, but in the light was almost blind. The effect that the leaves had when eaten by a ship's crew that arrived at James town, are well known †.

* Datura pericarpis erectis ovatis. Linn.
† An instance of temporary imbecility produced by them is mentioned, Beverl. H. of Virg. B. 2. c. 4.

Z [4.]
[4.] p. 107. Mons. Buffon has indeed given an afflicting picture of human nature in his description of the man of America. But I am there never was a picture more unlike the original. He grants indeed that his stature is the same as that of the man of Europe. He might have admitted, that the Iroquois were larger, and the Lenopi, or Delawares, taller than people in Europe generally are. But he says their organs of generation are smaller and weaker than those of Europeans. Is this a fact? I believe not; at least it is an observation I never heard before. They have no beard. Had he known the pains and trouble it costs the men to pluck out by the roots the hair that grows on their faces, he would have seen that nature had not been deficient in that respect. Every nation has its customs. I have seen an Indian beau, with a looking-glass in his hand, examining his face for hours together, and plucking out by the roots every hair he could discover, with a kind of tweezer made of a piece of fine brass wire, that had been twisted round a stick, and which he used with great dexterity. They have no ardour for their female. It is true, they do not indulge those excesses, nor discover that fondness which is customary in Europe; but this is not owing to a defect in nature,
but to manners. Their soul is wholly bent upon war. This is what procures them glory among the men, and makes them the admiration of the women. To this they are educated from their earliest youth. When they pursue game with ardour, when they bear the fatigues of the chase, when they sustain and suffer patiently hunger and cold; it is not so much for the sake of the game they pursue, as to convince their parents and the council of the nation that they are fit to be enrolled in the number of the warriors. Theings of the women, the dance of the warriors, the sage counsel of the chiefs, the tales of the old, the triumphal entry of the warriors returning with success from battle, and the respect paid to those who distinguish themselves in war and in subduing their enemies; in short, every thing they see or hear tends to inspire them with an ardent desire for military fame. If a young man were to discover a fondness for women before he has been to war, he would become the contempt of the men, and the scorn and ridicule of the women. Or were he to indulge himself with a captive taken in war, and much more were he to offer violence in order to gratify his lust, he would incur indelible disgrace. The seeming frigidity of the men, therefore, is the effect of manners, and not a defect of nature.
nature. Besides, a celebrated warrior is oftener courted by the females, than he has occasion to court: and this is a point of honour which the men aim at. Instances similar to that of *Ruth and Boaz are not uncommon among them. For though the women are modest and diffident, and so bashful that they seldom lift up their eyes, and scarce ever look a man full in the face, yet, being brought up in great subjection, custom and manners reconcile them to modes of acting, which, judged of by Europeans, would be deemed inconsistent with the rules of female decorum and propriety. I once saw a young widow, whose husband, a warrior, had died about eight days before, hastening to finish her grief, and who by tearing her hair, beating her breast, and drinking spirits, made the tears flow in great abundance, in order that she might grieve much in a short space of time, and be married the next evening to another young warrior. The manner in which this was viewed by the men and women of the tribe, who flocked round, silent and solemn spectators of the scene, and the indifference with which they answered my

* When Boaz had eaten and drank, and his heart was merry, he went to lie down at the end of the heap of corn: and Ruth came softly, and uncovered his feet, and laid her down. *Ruth iii. 7.*
question respecting it, convinced me that it was no unusual custom. I have known men advanced in years, whose wives were old and past child-bearing, take young wives, and have children, though the practice of polygamy is not common. Does this favour of fidelity, or want of ardour for the female? Neither do they seem to be deficient in natural affection. I have seen both fathers and mothers in the deepest affliction, when their children have been dangerously ill; though I believe the affection is stronger in the descending than the ascending scale, and though custom forbids a father to grieve immediately for a son slain in battle. — "That they are timorous and cowardly," is a character with which there is little reason to charge them, when we recollect the manner in which the French met Monf. — — —, who marched into their country; in which the old men, who scorned to fly, or to survive the capture of their town, braved death, like the old Romans in the time of the Gauls, and in which they soon after revenged themselves by burning and destroying Montreal. But above all, the unshaken fortitude with which they bear the most excruciating tortures and death when taken prisoners, ought to exempt them from that character. Much less are they to be characterized as a people of
no vivacity, and who are excited to action or motion only by the calls of hunger and thirst. Their dances in which they so much delight, and which to a European would be the most severe exercise, fully contradict this, not to mention their fatiguing marches, and the toil they voluntarily and cheerfully undergo in their military expeditions. It is true, that when at home, they do not employ themselves in labour or the culture of the soil: but this again is the effect of customs and manners, which have assigned that to the province of the women. But it is said, they are averse to society and a social life. Can any thing be more inapplicable than this to a people who always live in towns or clans? Or can they be said to have no 'republique,' who conduct all their affairs in national councils, who pride themselves in their national character, who consider an insult or injury done to an individual by a stranger as done to the whole, and resent it accordingly? In short, this picture is not applicable to any nation of Indians I have ever known or heard of in North America.

[5.] pa. 156. As far as I have been able to learn, the country from the sea coast to the Alleghany, and from the most southern waters...
waters of James river up to Patuxent river, now in the state of Maryland, was occupied by three different nations of Indians, each of which spoke a different language, and were under separate and distinct governments. What the original or real names of those nations were, I have not been able to learn with certainty: but by us they are distinguished by the names of Powhatans, Manahdacs, and Monacans, now commonly called Tuscaroras. The Powhatans, who occupied the country from the sea shore up to the falls of the rivers, were a powerful nation, and seem to have consisted of seven tribes five on the western and two on the eastern shore. Each of these tribes was subdivided into towns, families, or clans, who lived together. All the nations of Indians in North America lived in the hunter state, and depended for subsistence on hunting, fishing, and the spontaneous fruits of the earth, and a kind of grain which was planted and gathered by the women, and is now known by the name of Indian corn. Long potatoes, pumpkins of various kinds, and squashes, were also found in use among them. They had no flocks, herds, or tamed animals of any kind. Their government is a kind of patriarchal confederacy. Every town or family has a chief, who is distinguished by...
a particular title, and whom we commonly call 'Sachem.' The several towns or families that compose a tribe, have a chief who presides over it, and the several tribes composing a nation have a chief who presides over the whole nation. These chiefs are generally men advanced in years, and distinguished by their prudence and abilities in council. The matters which merely regard a town or family are settled by the chief and principal men of the town; those which regard a tribe, such as the appointment of head warriors or captains, and settling differences between different towns and families, are regulated at a meeting or council of the chiefs from the several towns; and those which regard the whole nation, such as the making war, concluding peace, or forming alliances with the neighbouring nations, are deliberated on and determined in a national council composed of the chiefs of the tribe, attended by the head warriors and a number of the chiefs from the towns, who are his counsellors. In every town there is a council house, where the chief and old men of the town assemble, when occasion requires, and consult what is proper to be done. Every tribe has a fixed place for the chiefs of the towns to meet and consult on the business of the tribe; and in every nation
there is what they call the central council house, or central council fire, where the chiefs of the several tribes, with the principal warriors, convene to consult and determine on their national affairs. When any matter is proposed in the national council, it is common for the chiefs of the several tribes to consult thereon apart with their counsellors, and, when they have agreed, to deliver the opinion of the tribe at the national council: and, as their government seems to rest wholly on persuasion, they endeavour, by mutual concessions, to obtain unanimity. Such is the government that fills sublimes among the Indian nations bordering upon the United States. Some historians seem to think, that the dignity of office of Sachem was hereditary. But that opinion does not appear to be well founded. The Sachem or chief of the tribe seems to be by election. And sometimes persons who are strangers, and adopted into the tribe, are promoted to this dignity, on account of their abilities. Thus on the arrival of Capt. Smith, the first founder of the colony of Virginia, Opechancanough, who was Sachem or chief of the Chickahominy tribe, is said to have been of another tribe, and even of another nation, so that no certain account
account could be obtained of his origin or descent. The chiefs of the nation seem to have been by a rotation among the tribes. Thus when Capt. Smith, in the year 1609, questioned Powhatan (who was the chief of the nation, and whose proper name is said to have been Wahunsonacock) respecting the succession, the old chief informed him, that he was very old and had seen the death of all his people thrice; that not one of these generations were then living except himself, that he must soon die and the succession descend in order to his brethren Opichapàn, Opechancanough, and Catataugh, and then to his two sisters, and their two daughters. But these were appellations designating the tribes in the confederacy. For the persons named are not his real brothers, but the chiefs of different

* This is one generation more than the poet ascribes to the life of Nefor.

Two generations now had past away.
Wife by his rules, and happy by his sway;
Two ages o'er his native realm he reign'd,
And now th' example of the third remain'd...

Pope.

tribes.
tribes. Accordingly in 1618, when Powhatan died, he was succeeded by Opichapan, and after his decease Opechancanough became chief of the nation. I need only mention another instance to shew that the chiefs of the tribes claimed this kindred with the head of the nation. In 1622, when Raleigh Crachaw was with Japazaw, the Sachem or chief of the Patowmacs, Opechancanough, who had great power and influence, being the second man in the nation, and next in succession to Opichapan, and who was a bitter but secret enemy to the English, and wanted to engage his nation in a war with them, sent two baskets of beads to the Patowmac chief, and desired him to kill the Englishman that was with him. Japazaw replied, that the English were his friends, and Opichapan his brother, and that therefore there should be no blood shed between them by his means. It is also to be observed, that when the English first came over, in all their conferences with any of the chiefs, they constantly heard him make mention of his brother, with whom he must consult, or to whom he referred them, meaning thereby either the chief of the nation, or the tribes in confederacy. The Manahoacks are laid to have been a confederacy of four tribes, and in alliance with the Monacans, in the
war which they were carrying on against the Powhatans.

To the northward of these there was another powerful nation, which occupied the country from the head of the Chesapeack-bay up to the Kittatinny mountain, and as far eastward as Connecticut river, comprehending that part of New-York which lies between the highlands and the ocean, all the state of New-Jersey, that part of Pennsylvania which is watered, below the range of the Kittatinny mountains, by the rivers or streams falling into the Delaware, and the county of Newcastle in the state of Delaware, as far as Duck creek. It is to be observed, that the nations of Indians distinguished their countries one from another by natural boundaries, such as ranges of mountains, or streams of water. But as the heads of rivers frequently interlock, or approach near to each other, as those who live upon a stream claim the country watered by it, they often encroached on each other, and this is a constant source of war between the different nations. The nation occupying the tract of country last described, called themselves Lenopi. The French writers call them Loups; and among the English they are now commonly called Delawares. This nation or confederacy consisted of five tribes, who
who all spoke one language. 1. The Chiho-
hocki, who dwelt on the West side of the
river now called Delaware, a name which it
took from Lord De la War, who put into it
on his passage from Virginia in the year,
but which by the Indians was called Chiho-
hocki. 2. The Wanami, who inhabited the
country, called New-Jersey, from the Rari-
ton to the sea. 3. The Munsey, who dwelt
on the upper streams of the Delaware, from
the Kittatinney mountains down to the Le-
heigh or western branch of the Delaware.
4. The Wablinga, who are sometimes called
River Indians, sometimes Mohickanders,
and who had their dwelling between the
western branch of Delaware and Hudion's river,
from the Kittatinney ridge down to the Rari-
ton: and 5. The Mahiccon, or Mahattan,
who occupied Staten island, York island,
(which from its being the principal seat of
their residence was formerly called Mahat-
ton) Long island, and that part of New-
York and Connecticut which lies between
Hudson and Connecticut rivers, from the
highland, which is a continuation of the
Kittatinney ridge down to the Hudson. This
nation had a close alliance with the Shawa-
nee, who lived on the Susquehannah and
to the westward of that river, as far as the
Alleghany mountains, and carried on a
long
long war with another powerful nation or
confederacy of Indians, which lived to the
north of them between the Kittatinney
mountains, or highlands, and the lake Ontario,
and who call themselves Mingos, and are
called by the French writers Iroquois,
by the English the Five Nations, and by
the Indians to the southward, with whom
they were at war, Massawamacs. This war
was carrying on, in its greatest fury, when
Captain Smith first arrived in Virginia.
The Mingo warriors had penetrated down
the Susquehanna to the mouth of it. In
one of his excursions up the bay, at the
mouth of Susquehanna, in 1608, Captain
Smith met with six or seven of their canoes
full of warriors, who were coming to at-
tack their enemies in the rear. In an ex-
cursion which he had made a few weeks be-
fore, up the Rappahannock, and in which he
had a skirmish with a party of the Manahoacs,
and taken a brother of one of their chiefs
prisoner, he first heard of this nation. For
when he asked the prisoner, why his nation
attacked the English? the prisoner said, be-
cause his nation had heard that the English
came from under the world to take their
world from them. Being asked, how many
worlds he knew? he said, he knew but one,
which was under the sky that covered him,
and which consisted of the Powhatans, the Manakins, and the Masiawomacs. Being questioned concerning the latter, he said, they dwelt on a great water to the North, that they had many boats, and so many men that they waged war with all the rest of the world. The Mingo confederacy then consisted of five tribes; three who are called the elder, to wit, the Senecas, who live to the West, the Mohawks to the East, and the Onondagas between them; and two who are called the younger tribes, namely, the Cayugas, and Oneidas. All these tribes speak one language, and were then united in a close confederacy, and occupied the tract of country from the East end of lake Erie to lake Champlain, and from the Kittatinney and Highlands to the lake Ontario and the river Cadaraqui, or St. Laurence. They had, some time before that, carried on a war with a nation, who lived beyond the lakes, and were called Adirondacs. In this war they were worsted: but having made a peace with them, through the interference of the French, who were then settling Canada, they turned their arms against the Lenopi; and as this war was long and doubtful, they, in the course of it, not only exerted their whole force, but put in practice every measure which prudence or policy could
could devise to bring it to a successful issue. For this purpose they bent their course down the Susquehanna, warring with the Indians in their way, and having penetrated as far as the mouth of it, they, by the terror of their arms, engaged a nation, now known by the name of Nanticocks, Conoys, and Tupecoes, and who lived between Chesapeak and Delaware bays, and bordering on the tribe of Chihohocki, to enter into an alliance with them. They also formed an alliance with the Monakans, and stimulated them to a war with the Lenopi and their confederates. At the same time the Mohawks carried on a furious war down the Hudson against the Mohiccon's and River Indians, and compelled them to purchase a temporary and precarious peace, by acknowledging them to be their superiors, and paying an annual tribute. The Lenopi being surrounded with enemies, and hard pressed, and having lost many of their warriors, were at last compelled to sue for peace, which was granted to them on the condition that they should put themselves under the protection of the Mingoes, confine themselves to raising corn, hunting for the subsistence of their families, and no longer have the power of making war. This is what the Indians call making them women. And in this
this condition the Lenopis were when William Penn first arrived and began the settlement of Pennsylvania in 1682.

[6.] Pa. 162. From the figurative language of the Indians, as well as from the practice of those we are still acquainted with, it is evident that it was, and still continues to be, a constant custom among the Indians to gather up the bones of the dead, and deposit them in a particular place. Thus, when they make peace with any nation, with whom they have been at war, after burying the hatchet, they take up the belt of wampum, and say, 'We now gather up all the bones of those who have been slain, and bury them, &c.' See all the treaties of peace. Besides, it is customary when any of them die at a distance from home, to bury them, and afterwards to come and take up the bones, and carry them home. At a treaty which was held at Lancaster with the six nations, one of them died, and was buried in the woods a little distance from the town. Some time after a party came and took up the body, separated the flesh from the bones by boiling and scraping them clean, and carried them to be deposited in the sepulchres of their ancestors. The operation was so offensive and disagreeable, that no-body
body could come near them while they were performing it.

[7.] Pa. 173. The Oswegatchies, Connosfedagos and Cohunnegagoes, or, as they are commonly called, Caghnewagos, are of the Mingo or Six-nation Indians, who, by the influence of the French missionaries, have been separated from their nation, and induced to settle there.

I do not know of what nation the Augquagahs are; but suspect they are a family of the Senecas.

The Nanticocks and Conoies were formerly of a nation that lived at the head of Chesapeake bay, and who, of late years, have been adopted into the Mingo or Iroquois confederacy, and make a seventh nation. The Monacans or Tuscaroras, who were taken into the confederacy in 1712, making the sixth.

The Saponies are families of the Wannies, who removed from New-Jersey, and, with the Mohiccons, Munifies, and Delawares, belong to the Lenopi nation. The Mingos are a war colony from the six nations; so are the Cohunnewagos.
Of the rest of the northern tribes I never have been able to learn any thing certain. But all accounts seem to agree in this, that there is a very powerful nation, distinguished by a variety of names taken from the several towns or families, but commonly called Tawas or Outawas, who speak one language, and live round and on the waters that fall into the western lakes, and extend from the waters of the Ohio quite to the waters falling into Hudson's bay.
In the Summer of the Year 1783, it was expected, that the Assembly of Virginia would call a Convention for the Establishment of a Constitution. The following Draught of a Fundamental Constitution for the Commonwealth of Virginia was then prepared, with a Design of being proposed in such Convention, had it taken place.

To the Citizens of the Commonwealth of Virginia, and all others whom it may concern, the Delegates for the said Commonwealth in Convention assembled, send greeting.

It is known to you, and to the world, that the government of Great Britain, with which the American States were not long since connected, assumed over them an authority unwarrantable and oppressive; that they endeavoured to enforce this authority by arms, and that the States of New Hampshire, Massachusetts, Rhode island, Connecticut, New York, New Jersey, Pennsylvania, Delaware, Maryland, Virginia, North Carolina, South Carolina,
Carolina, and Georgia, considering resistance, with all its train of horrors, as a lesser evil than abject submission, closed in the appeal to arms. It hath pleased the Sovereign Disposer of all human events to give to this appeal an issue favourable to the rights of the States; to enable them to reject for ever all dependence on a government which had shown itself so capable of abusing the trusts reposed in it; and to obtain from that government a solemn and explicit acknowledgment that they are free, sovereign, and independent States. During the progress of that war, through which we had to labour for the establishment of our rights, the legislature of the commonwealth of Virginia found it necessary to make a temporary organization of government for preventing anarchy, and pointing our efforts to the two important objects of war against our invaders, and peace and happiness among ourselves. But this, like all other their acts of legislation, being subject to change by subsequent legislatures, possessing equal powers with themselves, it has been thought expedient, that it should receive those amendments which time and trial have suggested, and be rendered permanent by a power superior to that of the ordinary legislature. The general assembly therefore of this state recommended

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it to the good people thereof, to choose delegates to meet in general convention, with powers to form a constitution of government for them, and to declare those fundamentals to which all our laws present and future shall be subordinate: and, in compliance with this recommendation, they have thought proper to make choice of us, and to vest us with powers for this purpose.

We therefore, the delegates, chosen by the said good people of this state for the purpose aforesaid, and now assembled in general convention, do, in execution of the authority with which we are invested, establish the following constitution and fundamentals of government for the said state of Virginia.

The said state shall for ever hereafter be governed as a commonwealth.

The powers of government shall be divided into three distinct departments, each of them to be confided to a separate body of magistracy; to wit, those which are legislative to one, those which are judiciary to another, and those which are executive to another. No person, or collection of persons, being of one of these departments, shall exercise any power properly belonging to either of the others, except in the instances hereinafter expressly permitted.

The
The legislature shall consist of two branches, the one to be called the House of Delegates, the other the Senate, and both together the General Assembly. The concurrence of both of these, expressed on three several readings, shall be necessary to the passage of a law.

Delegates for the general assembly shall be chosen on the last Monday of November in every year. But if an election cannot be concluded on that day, it may be adjourned from day to day till it can be concluded.

The number of delegates which each county may send shall be in proportion to the number of its qualified electors; and the whole number of delegates for the state shall be so proportioned to the whole number of qualified electors in it, that they shall never exceed 300, nor be fewer than 100. Whenever such excess or deficiency shall take place, the House of Delegates so deficient or excessive shall, notwithstanding this, continue in being during its legal term; but they shall, during that term, re-adjust the proportion, so as to bring their number within the limits beforementioned at the ensuing election. If any county be reduced in its qualified electors below the number authorized to send one delegate, let it be annexed to some adjoining county.

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For the election of senators, let the several counties be allotted by the senate, from time to time, into such and so many districts as they shall find best; and let each county at the time of electing its delegates, chuse senatorial electors, qualified as themselves are, and four in number for each delegate their county is entitled to send, who shall convene, and conduct themselves, in such manner as the legislature shall direct, with the senatorial electors from the other counties of their district, and then chuse, by ballot, one senator for every six delegates which their district is entitled to chuse. Let the senatorial districts be divided into two classes, and let the members elected for one of them be dissolved at the first ensuing general election of delegates, the other at the next, and so on alternately for ever.

All free male citizens, of full age, and sound mind, who for one year before shall have been resident in the county, or shall through the whole of that time have possessed therein real property of the value of or shall for the same time have been enrolled in the militia, and no others, shall have a right to vote for delegates for the said county, and for senatorial electors for the district. They shall give their votes personally, and in voto.
The general assembly shall meet at the place to which the last adjournment was, on the 42d day after the day of the election of delegates, and thenceforward at any other time or place on their own adjournment, till their office expires, which shall be on the day preceding that appointed for the meeting of the next general assembly. But if they shall at any time adjourn for more than one year, it shall be as if they had adjourned for one year precisely. Neither house, without the concurrence of the other, shall adjourn for more than one week, nor to any other place than the one at which they are sitting. The governor shall also have power, with the advice of the council of state, to call them at any other time to the same place, or to a different one, if that shall have become, since the last adjournment, dangerous from an enemy, or from infection.

A majority of either house shall be a quorum, and shall be requisite for doing business: but any smaller proportion which from time to time shall be thought expedient by the respective houses, shall be sufficient to call for, and to punish, their non-attending members, and to adjourn themselves for any time not exceeding one week.

The members, during their attendance on the general assembly, and for so long a time before
before and after as shall be necessary for travelling to and from the same, shall be privileged from all personal restraint and assault, and shall have no other privilege whatsoever. They shall receive during the same time, daily wages in gold or silver, equal to the value of two bushels of wheat. This value shall be deemed one dollar by the bushel till the year 1790, in which, and in every tenth year thereafter, the general court, at their first sessions in the year, shall cause a special jury, of the most respectable merchants and farmers, to be summoned, to declare what shall have been the averaged value of wheat during the last ten years; which averaged value shall be the measure of wages for the ten subsequent years.

Exclusions Of this general assembly, the treasurer, attorney general, register, ministers of the gospel, officers of the regular armies of this state, or of the United States, persons receiving salaries or emoluments from any power foreign to our confederacy, those who are not resident in the county for which they are chosen delegates, or districts for which they are chosen senators, those who are not qualified as electors, persons who shall have committed treason, felony, or such other crime as would subject them to infamous punishment, or who shall have been convicted by due course of law, shall not be members of this house.
course of law of bribery or corruption, in endeavouring to procure an election to the said assembly, shall be incapable of being members. All others, not herein elsewhere excluded, who may elect, shall be capable of being elected thereto.

Any member of the said assembly accepting any office of profit under this state, or the United States, or any of them, shall thereby vacate his seat, but shall be capable of being re-elected.

Vacancies occasioned by such disqualifications, by death, or otherwise, shall be supplied by the electors, on a writ from the speaker of the respective house.

The general assembly shall not have power to infringe this constitution; to abridge the civil rights of any person on account of his religious belief; to restrain him from professing and supporting that belief, or to compel him to contributions, other than those he shall have personally stipulated, for the support of that or any other; to ordain death for any crime but treason or murder, or military offences; to pardon, or give a power of pardoning persons duly convicted of treason or felony, but instead thereof they may substitute one or two new trials, and no more; to pass laws for punishing actions done before the existence of such laws; to
pass any bill of attainder of treason or felony; to prescribe torture in any case whatever; nor to permit the introduction of any more slaves to reside in this state, or the continuance of slavery beyond the generation which shall be living on the thirty-first day of December, one thousand eight hundred; all persons born after that day being hereby declared free.

The general assembly shall have power to sever from this state all or any part of its territory westward of the Ohio, or of the meridian of the mouth of the great Kanaway, and to cede to Congress one hundred square miles of territory in any other part of this state, exempted from the jurisdiction and government of this state so long as Congress shall hold their sessions therein, or in any territory adjacent thereto, which may be ceded to them by any other state.

They shall have power to appoint the speakers of their respective houses, treasurer, auditors, attorney-general, registrar, all general officers of the military, their own clerks and serjeants, and no other officers, except where, in other parts of this constitution, such appointment is expressly given them.

The executive powers shall be exercised by a governor, who shall be chosen by joint ballot of both houses of assembly, and when chosen...
chosen shall remain in office five years, and be ineligible a second time. During his term he shall hold no other office or emolument under this state, or any other state or power whatsoever. By executive powers, we mean no reference to those powers exercised under our former government by the crown as of its prerogative, nor that these shall be the standard of what may or may not be deemed the rightful powers of the governor. We give him those powers only, which are necessary to execute the laws (and administer the government) and which are not in their nature either legislative or judicary. The application of this idea must be left to reason. We do however expressly deny him the prerogative powers of erecting courts, offices, boroughs, corporations, fairs, markets, ports, beacons, light-houses, and sea-marks; of laying embargoes, of establishing precedence, of retaining within the state or recalling to it any citizen thereof, and of making denizens, except so far as he may be authorised from time to time by the legislature to exercise any of those powers. The powers of declaring war and concluding peace, of contracting alliances, of issuing letters of marque and reprisal, of raising or introducing armed forces, of building armed vessels, forts, or strong holds, of coining money
money or regulating its value, of regulating weights and measures, we leave to be exercised under the authority of the confederation: but in all cases respecting them which are out of the said confederation, they shall be exercised by the governor, under the regulation of such laws as the legislature may think it expedient to pass.

The whole military of the state, whether regular, or of militia, shall be subject to his directions; but he shall leave the execution of those directions to the general officers appointed by the legislature.

His salary shall be fixed by the legislature at the session of assembly in which he shall be appointed, and before such appointment be made; or if it be not then fixed, it shall be the same which his next predecessor in office was entitled to. In either case he may demand it quarterly out of any money which shall be in the public treasury; and it shall not be in the power of the legislature to give him less or more, either during his continuance in office, or after he shall have gone out of it. The lands, houses, and other things appropriated to the use of the governor, shall remain to his use during his continuance in office.

A council of state shall be chosen by joint ballot of both houses of assembly, who shall hold
hold their offices seven years, and be ineligible a second time, and who, while they shall be of the said council, shall hold no other office or emolument, under this state, or any other state or power whatsoever. Their duty shall be to attend and advise the governor when called on by him, and their advice in any case shall be a sanction to him. They shall also have power, and it shall be their duty, to meet at their own will, and to give their advice, though not required by the governor, in cases where they shall think the public good calls for it. Their advice and proceedings shall be entered in books to be kept for that purpose, and shall be signed as approved or disapproved by the members present. These books shall be laid before either house of assembly when called for by them. The said council shall consist of eight members for the present: but their numbers may be increased or reduced by the legislature, whenever they shall think it necessary; provided such reduction be made only as the appointments become vacant by death, resignation, disqualification, or regular deprivation. A majority of their actual number, and not fewer, shall be a quorum. They shall be allowed for the present each by the year, payable quarterly out of any money which shall be in the public treasury.
fury. Their salary however may be increased or abated from time to time, at the discretion of the legislature; provided such increase or abatement shall not, by any means, be made to affect either then, or at any future time, any one of those then actually in office. At the end of each quarter their salary shall be divided into equal portions by the number of days on which, during that quarter, a council has been held, or required by the governor, or by their own adjournment, and one of those portions shall be withheld from each member for every of the said days which, without cause allowed good by the board, he failed to attend, or departed before adjournment without their leave. If no board should have been held during that quarter, there shall be no deduction.

President. They shall annually choose a president, who shall preside in council in the absence of the governor, and who, in case of his office becoming vacant by death or otherwise, shall have authority to exercise all his functions, till a new appointment be made, as he shall also in any interval during which the governor shall declare himself unable to attend to the duties of his office.

III. Judicial. The judiciary powers shall be exercised by county courts and such other inferior courts
courts as the legislature shall think proper to continue or to erect, by three superior courts, to wit, a Court of Admiralty, a General Court of Common Law, and a High Court of Chancery; and by one supreme court to be called the Court of Appeals.

The judges of the High Court of Chancery, General Court, and Court of Admiralty, shall be four in number each, to be appointed by joint ballot of both houses of assembly, and to hold their offices during good behaviour. While they continue judges, they shall hold no other office or emolument, under this state, or any other state or power whatsoever, except that they may be delegated to Congress, receiving no additional allowance.

These judges, assembled together, shall constitute the Court of Appeals, whose business shall be to receive and determine appeals from the three superior courts, but to receive no original causes, except in the cases expressly permitted herein.

A majority of the members of either of these courts, and not fewer, shall be a quorum. But in the Court of Appeals nine members shall be necessary to do business. Any smaller numbers however may be authorized by the legislature to adjourn their respective courts.

Bb They
They shall be allowed for the present each by the year, payable quarterly out of any money which shall be in the public treasury. Their salaries however may be increased or abated, from time to time, at the discretion of the legislature, provided such increase or abatement shall not, by any ways or means, be made to affect, either then, or at any future time, any one of those then actually in office. At the end of each quarter their salary shall be divided into equal portions by the number of days on which, during that quarter, their respective courts sat, or should have sat, and one of these portions shall be withheld from each member for every of the said days, which, without cause allowed good by his court, he failed to attend, or departed before adjournment without their leave. If no court should have been held during the quarter, there shall be no deduction.

There shall moreover be a court of Impeachments to consist of three members of the council of state, one of each of the superior Courts of Chancery, Common Law, and Admiralty, two members of the House of Delegates and one of the Senate, to be chosen by the body respectively of which they are. Before this court any member of the three branches of government, that is
to say, the governor, any member of the council, of the two houses of legislature, or of the superior courts, may be impeached by the governor, the council, or either of the said houses or courts, and by no other, for such misbehaviour in office as would be sufficient to remove him therefrom: and the only sentence they shall have authority to pass shall be that of deprivation and future incapacity of office. Seven members shall be requisite to make a court, and two-thirds of those present must concur in the sentence. The offences cognizable by this court shall be cognizable by no other, and they shall be triers of the fact as well as judges of the law.

The justices or judges of the inferior courts already erected, or hereafter to be erected, shall be appointed by the governor, on advice of the council of state, and shall hold their offices during good behaviour, or the existence of their court. For breach of the good behaviour, they shall be tried according to the laws of the land, before the Court of Appeals, who shall be judges of the fact as well as of the law. The only sentence they shall have authority to pass, shall be that of deprivation and future incapacity of office, and two thirds of the members present must concur in this sentence.

B b 2

All
All courts shall appoint their own clerks, who shall hold their offices during good behaviour, or the existence of their court: they shall also appoint all other their attending officers to continue during their pleasure. Clerks appointed by the supreme or superior courts shall be removable by their respective courts. Those to be appointed by other courts shall have been previously examined, and certified to be duly qualified, by some two members of the general court, and shall be removable for breach of the good behaviour by the Court of Appeals only, who shall be judges of the fact as well as of the law. Two-thirds of the members present must concur in the sentence.

The justices or judges of the inferior courts may be members of the legislature.

The judgment of no inferior court shall be final, in any civil case, of greater value than 50 bushels of wheat, as last rated in the general court for settling the allowance to the members of the general assembly, nor in any case of treason, felony, or other crime which would subject the party to infamous punishment.

In all causes depending before any court, other than those of impeachments, of appeals, and military courts, facts put in issue shall be tried by the assessment of a jury in the manner in which they shall be allowed in cases for the recovery of personal injury, or for trying the title to real estate.

The governor and a judge of the supreme court of admiralty, shall hear and determine all the bills which shall be brought before the assembly, in the order they shall be then present, before it becomes law. If the council shall disapprove its rejection, or disapprove their advice and consent, the house in which it was passed shall need to reconsider it after such reconsideration the house shall be by the advice and consent of both houses, or either in which it was passed finally, the advice and consent of the council of the governor and council of the state. Wherein, if two
shall be tried by jury, and in all courts whatever witnesses shall give their testimony vivâ voce in open court, wherever their attendance can be procured: and all parties shall be allowed counsel and compulsory process for their witnesses.

Fines, amercements, and terms of imprisonment left indefinite by the law, other than for contempt, shall be fixed by the jury, triers of the offence.

The governor, two councillors of state, and a judge from each of the superior courts of chancery, Common Law, and Admiralty, shall be a council to revise all bills which shall have passed both houses of assembly, in which council the governor, when present, shall preside. Every bill, before it becomes a law, shall be presented to this council, who shall have a right to advise its rejection, returning the bill, with their advice and reasons in writing, to the house in which it originated, who shall proceed to reconsider the said bill. But if after such reconsideration, two thirds of the house shall be of opinion the bill should pass finally, they shall pass and send it, with the advice and written reasons of the said council of revision to the other house, wherein, if two thirds also shall be of opinion
nion it should pass finally, it shall thereupon become law: otherwise it shall not.

If any bill, presented to the said council, be not, within one week (exclusive of the day of presenting it) returned by them, with their advice of rejection and reasons, to the house wherein it originated, or to the clerk of the said house, in case of its adjournment over the expiration of the week, it shall be law from the expiration of the week, and shall then be demandable by the clerk of the House of Delegates, to be filed of record in his office.

The bills which they approve shall become law from the time of such approbation, and shall then be returned to, or demandable by, the clerk of the House of Delegates, to be filed of record in his office.

A bill rejected on advice of the Council of Revision may again be proposed, during the same session of assembly, with such alterations as will render it conformable to their advice.

The members of the said Council of Revision shall be appointed from time to time by the board or court of which they respectively are. Two of the executive and two of the judiciary members shall be requisite to do business: and to prevent the evils of non-attendance, the board and courts may, at

at any time, call the members in attendance. Subsequent notice to attend.

The Constitution, as shall be, of this state, of the other states.

The delegations in number; or fewer, may be appointed assembly the first year, subject by joint vote, may at the first legislative or not of the extent.

The benefits; and to prevent the evils of non-attendance, the board and courts may, at
at any time, name all, or so many as they will, of their members, in the particular order in which they would choose the duty of attendance to devolve from preceding to subsequent members, the preceding failing to attend. They shall have additionally for their services in this council the same allowance as members of assembly have.

The Confederation is made a part of this constitution, subject to such future alterations as shall be agreed to by the legislature of this state, and by all the other confederating states.

The delegates to Congress shall be five in number; any three of whom, and no fewer, may be a representation. They shall be appointed by joint ballot of both houses of assembly for any term not exceeding one year, subject to be recalled, within the term, by joint vote of both the said houses. They may at the same time be members of the legislative or judiciary departments, but not of the executive.

The benefits of the writ of Habeas Corpus shall be extended, by the legislature, to every person within this state, and without fee, and shall be so facilitated that no person may be detained in prison more than ten days after he shall have demanded and been refused such writ by the judge appointed...
pointed by law, or if none be appointed, then by any judge of a superior court, nor more than ten days after such writ shall have been served on the person detaining him, and no order given, on due examination, for his remandment or discharge.

Military.

The military shall be subordinate to the civil power.

Printing.

Printing-presses shall be subject to no other restraint than liableness to legal prosecution for false facts printed and published.

Convention.

Any two of the three branches of government concurring in opinion, each by the voices of two thirds of their whole existing number, that a convention is necessary for altering this constitution, or correcting breaches of it, they shall be authorized to issue writs to every county for the election of so many delegates as they are authorized to send to the General Assembly, which elections shall be held, and writs returned, as the laws shall have provided in the case of elections of Delegates to assembly, mutatis mutandis, and the said Delegates shall meet at the usual place of holding assemblies, three months after the date of such writs, and shall be acknowledged to have equal powers with this present convention. The said writs shall be signed by all the members approving the same.
To introduce this government, the following special and temporary provision is made.

This convention being authorized only to amend those laws which constituted the form of government, no general dissolution of the whole system of laws can be supposed to have taken place: but all laws in force at the meeting of this convention, and not inconsistent with this constitution, remain in full force, subject to alterations by the ordinary legislature.

The present General Assembly shall continue till the 42d day after the last Monday of November in this present year. On the said last Monday of November in this present year, the several counties shall, by their electors, qualified as provided by this constitution, elect delegates, which for the present shall be, in number, one for every militia of the said county, according to the latest returns in possession of the governor, and shall also choose senatorial electors in proportion thereto, which senatorial electors shall meet on the 14th day after the day of their election, at the Court-house of that county of their present district which would stand first in an alphabetical arrangement of their counties, and shall choose senators in the proportion fixed by this constitution. The elections and returns shall be conducted,
ducted, in all circumstances not hereby particularly prescribed, by the same persons and under the same forms, as prescribed by the present laws in elections of Senators and Delegates of Assembly. The said Senators and Delegates shall constitute the first General Assembly of the new government, and shall specially apply themselves to the procuring an exact return from every county of the number of its qualified electors, and to the settlement of the number of Delegates to be elected for the ensuing General Assembly.

The present Governor shall continue in office to the end of the term for which he was elected.

All other officers of every kind shall continue in office as they would have done had their appointment been under this constitution, and new ones, where new are hereby called for, shall be appointed by the authority to which such appointment is referred.

One of the present judges of the general court, he consenting thereto, shall by joint ballot of both houses of assembly, at their first meeting, be transferred to the High Court of Chancery.
N. III.

An ACT for establishing Religious Freedom, passed in the Assembly of Virginia in the beginning of the year 1786.

Well aware that Almighty God hath created the mind free; that all attempts to influence it by temporal punishments or burthens, or by civil incapacitations, tend only to beget habits of hypocrisy and meanness, and are a departure from the plan of the Holy Author of our religion, who, being Lord both of body and mind, yet chose not to propagate it by coercions on either, as was in his Almighty power to do; that the impious presumption of legislators and rulers, civil as well as ecclesiastical, who, being themselves but fallible and uninspired men have assumed dominion over the faith of others, setting up their own opinions and modes of thinking as the only true and infallible, and as such endeavouring to impose them on others, hath established and maintained false religions over
over the greatest part of the world, and through all time; That to compel a man to furnish contributions of money for the propagation of opinions which he disbelieves, is sinful and tyrannical; that even the forcing him to support this or that teacher of his own religious persuasion, is depriving him of the comfortable liberty of giving his contributions to the particular pastor whose morals he would make his pattern, and whose powers he feels most persuasive to righteousness, and is withdrawing from the ministry those temporal rewards, which, proceeding from an approbation of their personal conduct, are an additional incitement to earnest and unremitting labours for the instruction of mankind; that our civil rights have no dependence on our religious opinions, more than on our opinions in physics or geometry; that therefore the proscribing any citizen as unworthy the public confidence by laying upon him an incapacity of being called to offices of trust and emolument, unless he profess or renounce this or that religious opinion, is depriving him injuriously of those privileges and advantages to which in common with his fellow citizens he has a natural right; that it tends also to corrupt the principles of that very religion it is meant to encourage,
encourage, by bribing, with a monopoly of worldly honors and emoluments, those who will externally profess and conform to it; that though indeed these are criminal who do not withstand such temptation, yet neither are those innocent who lay the bait in their way; that to suffer the civil magistrate to intrude his powers into the field of opinion, and to restrain the profession or propagation of principles, on supposition of their ill tendency, is a dangerous fallacy, which at once destroys all religious liberty, because he being of course judge of that tendency, will make his opinions the rule of judgment, and approve or condemn the sentiments of others only as they shall square with or differ from his own; that it is time enough for the rightful purposes of civil government for its officers to interfere when principles break out into overt acts against peace and good order; and finally, that truth is great and will prevail if left to herself, that she is the proper and sufficient antagonist to error, and has nothing to fear from the conflict, unless by human interposition disarmed of her natural weapons, free argument and debate, errors ceasing to be dangerous when it is permitted freely to contradict them.
Be it therefore enacted by the General Assembly, That no man shall be compelled to frequent or support any religious worship, place or ministry whatsoever, nor shall be enforced, restrained, molested, or burthened in his body or goods, nor shall otherwise suffer on account of his religious opinions or belief; but that all men shall be free to profess, and by argument to maintain, their opinions in matters of religion, and that the same shall in no wise diminish, enlarge, or affect their civil capacities.

And though we well know that this Assembly, elected by the people for the ordinary purposes of legislation only, have no power to restrain the acts of succeeding Assemblies, constituted with powers equal to our own, and that therefore to declare this act irrevocable, would be of no effect in law, yet we are free to declare, and do declare, that the rights hereby asserted are of the natural rights of mankind, and that if any act shall be hereafter passed to repeal the present, or to narrow its operation, such act will be an infringement of natural right.

FINIS.
My dear Sir,

The facts I heard from General John Gibbon in relation to Logan's speech, are these. He told me that on the breaking up of what was unjustly called the Gaspe war for neither the father nor the son was concerned in the murder of Logan's family which provoked it. He went with Lord Dunmore against the Shawnee tribe as a negociator qualified by a knowledge of Indian and their language, acquired from a residence with them as a prisoner, and was sent in with proposals of peace. Midway between the camp and the town, he found Logan standing with Golden arrow by the side of the path, who, in answer to General Dunmore's salutation, "my friend Logan, I am glad to see you," coldly replied, "I suppose you are," and turned away. This was a bad omen; and on meeting the chief in council, General Gibbon was sorry to notice that Logan was not among them; but while opening the terms of peace, feeling his expectations placated, he turned and saw Logan conversing with G特朗, and bidding him to follow. Logan led the way to the woods outside of the town, and having regained his composure by shedding tears, delivered the speech, or at least the substance of it, which has been the subject of so much discussion. Returning to camp General Gibbon gave a written translation of it to Lord Dunmore; and he remembered that it was admired by the officers. He would not say that the translation published by the
Jefferson was an exact copy of it, but he was sure that it was the same substance. He was as contemptuous as Mr. Jefferson, to whom he was not inferior in education, to give it the simple ideas in which it had been so much admired. But whether one may be entitled to the merit of it, General Gibbon said it gives a faint idea of the original, delivered as it was, under a sense of direction and in tones of despair.

Yet though rude and born in the outsets of civilization, Logan was, in every respect, a savage. In the days of my boyhood, I heard old men speak of him who knew him when he lived on the Kishacoquilla, near its junction with the Susquehanna; as noble, honest, and humane; but afterward he sought expiation in indulgence, renounced the tiger on him. Though he proposed to be done with recriminations on his deathbed, he became fierce and angry tendencies every one, and so dangerous that one of his own relations was compelled to despatch him. And his eloquence, not of genius, but passion, has done no more than to preserve in auddled state, a gentle argument against one of two honorable men. General Gibbon spoke of them, which were due to have finished at its birth. Mr. Jefferson ought not to have attempted to destroy it by certificates and affidavits of vague rumors. But the subject has lost its interest and is almost forgotten, so that the descendents of the injured parties will cease to be annoyed with it.

Very truly, dear Sir,

Your affectionate servant,

John S. Annister, Esq.

Edward D. Ingraham, Esq.
another is mentioned by Strabo, "the Portages of Veii, from which they call a map of earth above the deep river Tiber, near the village of Seleucia, about a hundred miles from Maatia, in the direction of Scione, over which carts and carriages pass without difficulty. It might be taken for a fragment of the adjacent mountain, torn from it, in pieces of 12, by an earthquake." History of Sicily. I. 1. 8. 3.

This cause of passage is cut out of the live rock with such precision, that the inequalities on one side correspond with the projections on the other side, as if that mountain had parted on purpose, with its turns and windings, to make a passage for the waters between the two lofty walls on both sides; they being so like each other that, if they were joined together, they would cover each other without leaving any cavity between them.

Marble is very frequently found on the banks of most of these rivers: slate, rocks, also, are seen there and I have often had occasion to observe the close affinity between these two kinds of rock. I had made some remark in the Cornubian. These slate and marble often touch one another and I have seen some rocks, which were slate at one end and marble at the other. Every new combination of rock, analogous to slate and cementing its layers, makes the whole rock harder and more compact; the rock is no longer slate but becomes marble. Another rock, called Schist, is also subject to this transformation. Sometimes, the layers not only are cemented together, but one piece of rock joins, as if by chance, another, and if the whole is then exposed to the action of gravel and of flint stones rolled by flowing water, it is, as it were, rounded off, afterward the becomes nearly cylindrical and assumes the appearance of the trunk of a tree; so that it is often with difficulty distinguished from a real tree. I regretted much not to be able to take with me one of these apparent trees which I had found in a ravine between Guanaca and La Plata, at the foot of a hill, called la debida del Frayle. This was a piece of marble, 60 inches long by 17 or 18 diameters, the surface presented a kind of knots of various forms and something like wood fibers was visible; even the outline of the trunk was calculated to receive me. There was an indentation on one side and a projection on the opposite side, which remained equally inexplicable to myself and to those who accompanied me. I was only decided by noticing other pieces of Schist, lying near, which began to assume the same appearance but were not yet sufficiently changed to deceive one and which, on the contrary, enlightened me as to the nature of the piece of marble. It is said that among various kinds of wood, the yagas is the one which is most easily purified and I was assured that I would see below Monsira a crop, the upper part of which was slate of this woods whilst the lower part was actually flint. Several persons offered me they had drawn fire from it. When I
came to the spot, several persons confirmed the report, but added that an unusually high flood had caused the crops to fall into the river. Page 93.

Here one observes no trace of those vast inundations which have left so many marks in all other countries. I made every effort to find some trace, but always in vain. It seems as if the waters of the Paraná had been too high. "Pouquey (50.)"

"In our times it has been seen in Italy for the first time."

"It has its origin in the hot countries of America." Zoologie géographique, p. 74.

Potatoes are indigeneous in Iquiyu. Zimmermanns zoögeographie. 4th. ed. The potato was brought to Europe from South America, its native country. 1 Blaniger 88.

The maize came from America to Spain, and thence to other European countries."

1. Blaniger says: 1. Blaniger 88. Acosta teaches, "American corn" with the plants peculiar to America, observing that it is called "trigo de los Indias" (Indian wheat) in Spain, and "grains de Perua" (Turkey grain) in Italy. Acosta says: "From hence came Indian corn, and why they call this most productive grain in Italy: Turkey grain, it is easily ascertained. Moses, in fact, there is no trace of such a plant in the Old World, although the millet, which Pliny says was ten years before he wrote, from India to Italy, has some resemblance to maize, is so much as he calls it a grain, which grows in stalks and is covered with leaves which has at the top a sheaf of hair, and is remarkably productive—all of which does not apply to Indian maize, by which they commonly mean millet. After all, the breeder rules all parts of the globe. to one he gave wheat, the principal food of man, to the Arabs he gave maize, which he calls the place, next to wheat, is a food for man and beast." Acosta 4.16.

Blaniger says: I do not remember that any American nation had the tradition of elephants or hippopotami or other quadrupeds of equal size. I do not know that any of the numerous excavations made in Peru, last brought to light the carcass of a hippopotamus or even the tooth of an elephant. 2. Blaniger 88. Pouquey pronounces it is not the grizzly of the elephant or hippopotamus, but of a species, the first and the greatest of all land animals, now lost."
the earth had twice remained cold, unable to produce the principles necessary for the development of the grains of the largest quadrupeds, which require for their growth and propagation all the heat and activity which the sun can give to the living earth." XVIII. 156. The temper of men and the size of animals depend upon the salubrity and the heat of the air. 26. 160.

"All that is colossal and grand in Nature, has been formed at the North." Epag. 255. It is in our Northern regions that living nature has given to the largest dimensions. 26. 263.

"Savage have in Hispaniola grown so much in number and in size as to become the plague of that island." Acosta. IV. 93.

Although the Savage of the New World is nearly of the same height as man in our world, this does not suffice to constitute an exception to the general fact that all living nature is smaller on that continent. The Savage is feeble and small in some of his parts and has little hair or beard; although swifter than the European because better accustomed to run, he is, on the other hand, less strong; he is also less sensitive and yet more timid and cowardly; he has no vivacity, no activity of mind; the activity of his body is left in exercise, a voluntary motion, than a necessary action caused by want; relieve him of hunger and thirst and you deprive him of the active principle of all his movements; he will rest stupidly upon his legs or lying down, entire days. There is no need for seeking further the cause of the isolated mode of life of these Savages and their repugnance for society: the most precious spark of the fire of nature has been refused to them: they have no love for their wives and consequently no love for their neighbours: as they know not their strongest and tenderest of all affections, their other feelings, also, are cold and languid; they love their parents and children but little; the closest of all ties, the family. Communion, builds them; therefore, but loosely together, between family and family there is no tie at all; hence they have no community, no society, no State of society. Physical love is their only morality; their heart is icy; their Society cold and their rule despotic: they look upon their wives as servants for all work or as beasts of burden, which they load, even consideration, with the produce of their hunting and which they compel, without energy, without gratitude, to perform work which is often above their strength. They have only few children, take little care of them. Everywhere the original defect appears: they are indifferent.
because they are insipid, and their indifference for the other sex is the fundamental defect, which tarnishes their nature, prevents its development and destroying the very genius of life, uproots at the same time society. Man is here also no exception to the general rule. Nature, by conferring him the power of love, has treated him worse and lowered him deeper than any animal.


Amer. Vesp. 30. 31. 39. 78. Of great strength and lofty mind.

The conquered Indians are the most cowardly and pusillanimous that can be seen: they excuse themselves, humble themselves to contempt, apologize for their insconsiderate temerity and importunate supplication and prayer, give the best proof of their want of courage, either the accounts given in the History of the Conquest, or their great exploits, are a mere figment of speech, or the character of these people is not the same now as it was then; but this, is beyond doubt, that the nations of the greatest North enjoy the same liberty they have always had, without ever having been subject to foreign princes, and they live all their life according to their rules and usages, without any reason why they should change their character; and herein they appear the same as those of Peru and of South-America, now enslaved or never subjugated.

[and the last line of same note:] hard labor destroys them, on account of the inhumanity with which they are treated.

[they live a hundred and fifty years. Amer. Vesp. 131.

Amer. Vesp. 13. Their women are very fertile.

The earth is cold, necessary for the propagation of the species, the development of the genus of the largest creatures quadrupeds, which require, for their growth and propagation, all the heat and activity which the sun can give to living creatures.

p. 140. The temper of man and the size of animals depends upon the salubrity and the heat of the air.

[written on] all that is colossal and grand in nature has been formed in northern countries. 1 Esp. 255. It is in the northern regions that living nature has produced trees to the largest dimensions.
Amer. Vis. 115. "Here the sky and the air are seldom darkened by cloud; the days are almost always clear."

See Herrera: Dec. 1, L. 10, Ch. 8. "When the atala was discovered, an abundance of wax and honey was found; and in Ch. 9, there are found bees and bees, although the latter are smaller and sting with more fury." See Dec. 1, L. 3, Ch. 1.

See Clavijero: 107. "On the frontier of Guayaquil there are found bees, which accumulate and make honey in the bottoms of trees; they are larger than flies, and the wax and the honey they make are red and although it tastes well, it is not the same as in Cuzco." Kerr. 5, L. 10, 11.

Several Indians have told us that they have seen on the banks of the river Coari in the upland, an open plain, flies and a number of horned animals, which they had not seen before and which prove that the sources of these rivers water a country adjoining the Spanish colonies of Upper Peru."

Several Indians have told us that they should be fenced away to bring many negroes from Guineas, as the labor of one negro was worth more than that of four Indians." Herrera [p. 102]

In the note to pag. 97 I have allowed myself some slight liberty in translating from Buffon, saying e.g. "parts only, for genital parts" and similarly in a second instance. In all other extracts I have tried to translate as literally as clearance would allow.

Wm. L. D. V.
An Eye-Draught

of the

Mammoth Cave,

in Warren County [Ky.]

Note: The principal cave is from 50 to 80 feet wide and about 30 feet high; generally, at the large one it is 100 feet wide and 40 to 50 feet high. It has been explored about 3 miles from the termination of the entrance.

The clay impregnated with water has been found to be generally about 5 feet deep extending quite across the cave. Under this clay is a well-laid of fine loam, the depth of which has never been exceed. The clay in the principal cave produces 6 W of full beer to every bushel. The sand produces 1 lb. to the bushel.

Handed from...
A Sketch

A high round hill or earthwork enclosing a fortification.

Note: Wall of fortification is altogether detached from the other military works along the valley of the Little Miami, about three miles in width, with the Little Miami River.
The above Fort is on Robert Smith's Land.
A Stone was erected in the centre of the above Fort, about 34 inches square, by a Mr. Michael Opgard.

The above Forts are situated on the North side of the Scioto and are about 3 miles from each other.
A Topographical Analysis of the Commonwealth of Virginia, compiled for the years 1790-1.

Showing the extent and relative situation of the several Counties, their distances from the Seat of Government, Population, Fever, County Landmarks, Representation, Etc. Also the Districts and County Courts, the Chief Inns of the Commonwealth, Etc. carefully collected from Public Records and other Authorities. To be continued Annually.

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EXECUTIVE

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LEGISLATURE

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COURT OF APPEAL

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