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#  <br> FOR: <br> NOVA Scotia, New brunswick and prince edward isLandy. 

##  Bay Verte, New Brunswick:

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## Statistics of British North America.

CANADX.--This Provinice has an area of 350,000 square miles, and a population bordering on threé miilions souls. Her rerenue in 1841 was only about one and a quarter millions; it is now (1861) pearly seien and a half millions of dollars." The principal part of her trade being of an inland nature, her tonnage does not ex ceed 100,000 tons. The imports of this Province incireased from $1851^{\prime}$ to 1858 , from 21 to 29, millions of dollars, while hér exports had more thin doubled, being 23 milliong. She has coinstructed !,250 miles of railway, at ani expense of eighty millions of dollars, twienty millions of which were adtanced by the goternment in aid of sixty millions of priyate capital. The Victoria Bridge is the most magnificentit stracture of its kind in the world, haping cost dearly ten million of dollarg. In 1856, fify-two thousand dollars wer'e expended in'its geological survey. It has the bést system of canals in the world; se. en years ago a revenue of tolls was derived of nearly fifty-eigh millions of dollars. Canada has one continuous line of railway stretching from the foot of late Hurony down the St. Lawrence nearly one hundred miles below Quebec.Her agricultural and mincral resources are vast; of the latter, especially in copper ore, this Province is rich. Every year adds new dissoveries of mineral wealth to her already discovered stores. Canada owes $\$ 54,142,044$ and expénded in $1860, \$ 11,008,360$.
Nóva Scoria. In 1784, when New Brunswick was separated from this Province, Nora Scotia had a population of but 13,000 souls;
now she has over three hundred thousand. Her imports rose front 1851 to 1858 , from three to eight millions of dollars; the export, reaching in the latter year to six and a third millions of dollars. The mineral resources of this Provinge are unparalled on this side the Atlantic. In 1859, there tras exported from the Albiou Mines, Picton, over 260,000 tons of conl. In the same year, the iron mines of Londonderry yielded an export ef sixty-five thousand dollars. The iron manufactured from this'ore rivals the kest Stredish irom. In 1858 she owned 2,107 , ressels, measuring in the agyregate 185,000 tons.This Province has constructed ninety-two miles of railway, at an expense of one million and fifty thousand pounds currency.

New Broxswick.-This Proxince embraces twentyseren thousand square miles of territory, being oae-third larger than Nova Scotia; her imports in 1859 reached to over seven millions dollars, and exports to five and a third millions, exclusive of the value of ships built in that year. The population now about 225,000 , doubled itselfin every curccessive seventeen years, between the years 1792 and 1851. Her revenue in 1859 mounted to nearly three quarters of amillion=of $=$ dollars. The railways of this Province, one handred and seventy miles in extent, have cost the Province about five millions of dollars, besides the amount from private sources expended on the St. Andrews ${ }^{2}$ line.The mineral resourses of this Province, as timo rolls on, becomes mors important.. Her conl field, which is said to enver onethird of thearea of the Province, is surpassing in value all. former calculations: the proceeds from the Hillsboro coal mines, in 1859 , amounted to two dundred and twenty-five thousand dollars; affording the stockholders Who prineipally belong to the States, one hundred and ten per cent. profit, the prigcipal part of which goes to enrich a forcign nationThere are nimerous and extebsive deposits of copper and iron ores of grent richness: besides upwards of twenty beds of coal of different qualities, some of great worth, scattered orer the country. Indeed, eyery year gads some new discovery of mineral wealth to the present satatogue.
Prisce WDward Island ${ }_{3}$ during the last hundred rears, had increased her population from one thousand souls, to about eighty thousant She orns about 28,000 tons of shipping ; her imports and exporis hupe doubled duriag the hist seven years, the former, exceeding ope millign dollarse Nearly twomillions bushels grain are now anpu--ally exportech from this colony, the area of which is a little over two thougand equare miles The revenue of this small colony in 1858 , wasmoe hundred and seven thousand six humdred and forty dollarsionThis valuable colony, rich in agyicultural capabilities, and survounded by an extensive fishing coast; is yet destined, though: comparatively smallin area, to fulfil its part in gdvancing the material interests of the Lower Provinces.

Newfoundland, situate within gis days atexming of Europe, is the most ronowned fishing atation in the world. It is not destined to be andgricultural country, though sopie parts of it produces good crops. It is in its fisheries, and unrivalled lead, copper, and othor ores, that its wealth lies. One hundred years aga, it containel but thirtequ thousand inhabitants, only half of whom were constant. residents. In 1857, when the last census was taken, the population numbered one hundred and twenty thousand. In 1858 her imports amounted to four and a half millions of dollars, being an increase of a million since 1851; in the same time her:staple exports increased one and a half millions, The revenue in 1858 amounted to nearly half a million of dollars; and in the same jeax, eighty thousand tons of shipping were owned in the colony.

The aggregate tormage of shipping owned by Nova Scotia; New Brunswiek, Prince Edward Island, and Newfoundland, eypeeds four haider and thirty thousand tons, a commercial fleet of no mean capacity:

## Trade of New Brunstrick.

Tabular statement of Imports and Exports for the following years:

| Year, | Imports. | Exports. ※ $457,85 \dot{5}$ sterling. |  |
| :---: | :---: | :---: | :---: |
| 1829 | £643,581 |  |  |
| 1850 | 818,531 | 658,018 |  |
| 1854 | 2,068,773 | 1,104,215 | 6 |
|  | 1,521,178 | 1,073,35 | " |
| 1857 | 1,418,943 | 917,775 | " |
| 1858 | .1,170,000 | 816;780 | * |
| 1859 | 1,416,034 | 1,073,422 | " |

To tial 至xporte, the value of ships built, and their freights; not added.

The following table shows the number gnd tonaage of shipsturilt in the years indicated thereby:

| Year. | No. | Tons. |  |
| :---: | :---: | :---: | :---: |
| 1848 | 86 | -29,793) |  |
| 1851 | 87 | . 49 , 350 |  |
| 1853 | 122 | 71,428 | Of the average |
| 1854 | 135 | 99.426 | value of ${ }^{\text {\% }} 7$ |
| 1857 | 148 | 71983 | ster. per ton, |
| 1858 | 76 | 26.263 |  |
| 1880. | 93 | \% 3 ,330 |  |

Table showing the number and tonnage of vessels arived in, and departed from, Now Brunswick, in the

| Years: | Arrived. | Tons. | Departed. | Tons. |
| :---: | :---: | :---: | :---: | :---: |
| 11824 | 914 | 219,567 | 8898 | 227,720 |
| 1840 | 2,910 | 365,597 | 2,952 | 408,966 |
| 1856 | 8,222 | 645,756 | 3,375 | 701,149 |
| 1358 | 3,146 | 573,473 | 3,157 | 597,167 |
| 1859 | 3,455 | 734,155 | 3,862 | 748,773 |

Aggregate value of Agricultural produc̣e imported

| Do in 1858, do do in 1859, | 239,798 |
| :--- | :--- | :--- | :--- |

Agricultural produce exported in $1859 \quad \underset{5}{\mathbf{5}, 67 \mathrm{E}}$
Balance against the Province
Value of lumber exported in 1858
Do. do do 1859
※285,118

Tonnage of gbipsemployed in the conveyance of lumber from the Prokince:

| Year, | Tons. | Year. | Tons. |
| :--- | :---: | :---: | :---: |
| 1852 | $.223,676$ | 1858 | 195,528 |
| 1856 | $.281,821$ | 1859 | $.275,012$ |

Vessels owned by New Brunswick in the following

| Years: | No. of Vessels. | Tons. |
| :---: | :---: | :---: |
| 1848 | 763 | 113,825 |
| 1850 | 807 | 121,998 |
| 1855 | 506 | 110,451 |
| 1857 | 857 | 160,508 |
| 1858 | 812 | 139,095 |
| 1859 | 811 | 134,055 |

The ordinary Revenue of the Province, and number of Emigrants srived:

| Years. | Rexemue. | No. of Emigrants. |
| :---: | :---: | :---: |
| 1784 | £ 742 | Wo. of Emigrata. |
| 1789 | 962 |  |
| 1808 | 3,731 |  |
| 1814 | 25,878 |  |
| 1824 | 44,620 |  |
| 1834 | 96,375 |  |
| 1840 | 110,047 |  |
| 1845 | 12\%,656 |  |
| 1848 |  | 14,879 |
| 1850 | 1164,933 |  |
| 1854 | 203,054 |  |
| 3856 | 147,248 | 3,440 |


| 1857 | 167,063 |  |
| :--- | :--- | :--- |
| 1858 | 186,357 |  |
| 1859 | 193,381 | 2,301 |

Much of our present importations might be saved by a more ecor nomical expenditure on the part of the public, and by paying mose attention to the manufacture of articles of necessity and convenience. Our imports far exceed our exports: in addition to $£ 233,685$ worth of flour imported in 1859 , we pay $\$ 50,000$ for aricicles of mere lyxury, such as liquors, tobacco, silks, satins, \&e.; $\mathfrak{E} 27,824$ for vaxious kjinds. of farm products, and $£ 242,950$ for clothing, haberdashery, sleighs, \&c.
It is only necessary to examine the table under the head of "ordinary revenue," in order to point out the years of commercial prosperity and adversity, and the fluctuations of trade. The year -1854 when the revenue rose to $£ 203,054$, was a year of great proquerity, but, it did not last long; for the following year the revenue fell onefoforth this amount. In that year, it will be seen that the number and tonnaga of ships built, far exceeded that of any year before or since. The table of imports and exports, the former nexxly doubling the letter, shew also to the same effect.

The great demand, in the British market, for ships, was ope of tha principal causes of this year of prosperity; nearly three bundred of the vesselsowned by the Provipce were sold during that year, in' the markets of the mother country. Besides, Merchapts imported far ben yopd the requirements of the Province. The low price of ships in the British market at present, and for the last two years, is a great lbackdraw to the interests of New Brunswick, which has such great facilities for shipbuilding, and depends so much upon this branch of industry, to keep the twpip sides of her balance sheet progerly balanced.

These tables teach us the necessity of cultivating. more land, and cultivating it better. To do this, we want a better system and more labour. $\mathfrak{z} 233,685$ is a large sum for Neiv Brunswiek to pay in one year for four alone. This large importation of flour does not, by any means, indicate a heatthy state of agricultural operations. If properIs farmed, this country onght to supply its own wants' in this respect,

Notwithstanding the numerous emigration schemes, and the large expenditures in behalfof omigration; made by the Province, đüring thí last ten or fiftecu years, and the inducements offered shrou'githe means of our Railway operations, atill, emigration to the Provitice of Nem Brunswick is on the decline; and many of those who do artive ini thid Province, only remaip a short time, when they leave for Gandde or the States. One of the prominent reasons, we believeis, that our emigitition schemess are based upon selfish principles ${ }^{4}$, the emigrantifitids'cido

 storling in for to too high . a price for wildernegs fand.

## Prize Essays on New Branswick.

The Essays, five in number, originated with the Mechanice' Insittute, Sr. John; and aro principally a compiation, from the works of Gesner, Professor Jolinston, Perley, and Munro. Although writen iatependently of euch other, it is remarkable bow near the statements in eath coidelde; especially the Essays by Messrs. Ellis, Edger, and Burlis. Thoséthree Essajs advocate on all material points, nearly the stane vie'ws.' Even the one by our friend, the late William Till, follows the track of the lirree above named, but does not treat so extensivoly on each topic; while the Essay by the Hon. James Brown, consisis principally of ' $\%$ recital of the writer's own experience, and other pracrical facts; well wottli a careful perusal. Indeed, the whole five Easky shbuld be placed in the hands of every one, desirous of exchanging their fatherdand for a colonial home. And their perusal even by the inhabitants of New Brutsswick, might do much to allay that restless spirit "that prevades the thinds of a portion of the inhabitants of this Probince. They are'written in a tamiliar and pleasant siyfe. That by. Mes! 㗉llis, for which the first priza was a warded, is more levighy than the others, and is written in a lofiy style, and may be said to embody the principd part of the slutistical and other useful matier contained in the other fout. Trie picture may, in some instances be some what overdtawn. The statistics, in the who'c of these Essays, have been prepared' with'great cate, and may, in a general way, be relied on.
'The most glarin'g error we have met with, is on page 13. of Mr. Ellis's Essay, where he refers to the quanity of marine alluvium, near the Bbundary bietween Növa Scoiia and New Brunswick, at the head waters'df the Bay of Fundy, where he eays:-_"One of the 'dyked marshes;' divided between Nova Scotia and New Brunswick, contains over 250, 000 acres," while there is not more than one quarter of this quantity in the district referrad to; near the half of which is unproductive bog.

The pext point for consideration is, what is to be done : with these Essiys? A large Edition has been struck off, at a great expense to the Province : and are they to be allowed to lie on the shelves"of the Emigration Office at St. John, the public, offies at Fredricton; und other offices, for:yeqrs fo spails as other works of a similar nature havax been allowad to do, prace they to be diatributed for perusat? If sent 10 Greaf Briain, for which we anticipate they are principally intended, are they there tof be allowed to lie on the, shelves of offices; unknown sud unadmertized? If sp therlabour and means employed in their pre* - aration will be in yain

Conyerpigg, notidong:ago, with an intelligent, gentleman, who fefore saying Landon, wentrthrough the principal offices, and book stores! prsen, ah of some work works treating especially on the Pravince of Jew Bi nswick; aftefo: long searcib, he found: a. case of Rfofessor ${ }^{\prime}$

Johnston's Report, which had lain in tho offica for gats unopersod, He parchased a cony for which he paid fiye shallings sterling.

I his is not the way to make our country known. Copies of these Nssays and oher werks, which are now stored in the Embration and nther offices, should be distributed froe of charge, in the ruril wisuriets of the Mother Couniry, where the best plass of pegnie for rmigration are to be found. As these fissays say, we want a sober, indualrous, and persevering class. of men and somen, who are not afraid por ashamed to labour, when they arrive in the country.

## Brazil.

Sootr after the discorery of the American Continent, the nations of Furope began to portion it off among them ; in the diyisjon, Spainibecame possessed of a large portion of South America, including Brazil, which remained a colony of this empire until 1711 , when it became a colony of Portugal. Want of space will not permit our entering in detail into the various historical features connected with; the early settlement and struggles encountered by the inhabitants of this invalpable section of the American' continent. Suffice it to say that the great amount of natmral wealth contained in Brazil, made it an object of attraction to many of the rations of Europe. Spain and Portugal, cach in turn, drew millions of pounds annually to their national coffers, from this trans-atlantic colony. During the Europeal wars, France, and Holland made efforts to subjugate Brazil, and constitute it a colony, but failed.
"The principal part of America, both North and South, became dissatisfied with the manner in which their Royal masters treated them, and shook off their allegiance, ond became divided and sub-dividedinto a number of Republics. During the time that South America yyas subject to Spain and other foreign nations, its wealth was monopolized by its foreign rulers, and the inhabitants were treated more like glaves thin that of a free people; besides, the wealth of their country was drained out to enrich foreign nations, and support an army of official servants, sent to rule the colonies, who did se with a rod of iron. If crime and debathecry were common in Spain aud Portugal, it beçome doubly so in the South American colonies." The democratic element, ignorant bratal, and selfish, formed into bandits, each hieaded, by leaders, who looked forward to be heads of repnblich. While thits state of things continued, the sword being the arbiter, their allegiancet foreign powers was soon cast off, and the country formed, into a number of republics. Then commenced a succession of civil and foreign war:and incessant political convulsions and financial troubles Affer b ing free from foreign trammels, these little Republics, Brazil excepte, i, made war upon each other, which they still continue to:do, until, th ;
have rendered this fair portion of God's crettion, at unsafo abode for moral and intelligent man.

During the possession of Brazil oy Portugal, the latter contemplated removing ils crown head to its tra is-alantic Brazitian pussessions, which wes not done ; but Don Pedro, a branch' of the royal family of Portugal, was sont out as Regent. This act of Portugal and the tyrrany exercised over the natives and spitlers generally; produced disaffection among the triass of the people, who bogan to estimate their importance.

Unsequently in 18\%1 the Brazilians revolted against Portugal, passed through the political furnace, und in 1822 became a limited hereditary and constifutional monarchy; a most remariable event, and it must bo acknowledged, happy result. Thus, was the fitst and only monarchy on the American Continent established.

The Emperor, Don Pedro I. was placed on tho throne, who did not give the full amount of eatisfecion demanded by the neyv furmed nation ; abdicated the throne in favour of his son, Don Pedro Il who took up his residence at Rio ded Janeiro, the Capital of the Brasilian Empire. The present monarch, Dón Pedro $11 .^{\circ}$ is an' enlightened statesman; he has ferformed wonders, in forming his government, and moulding the institutions of the coluntry, and direciing the msind of the nation.

Brazil has an clective Legislative Assembly, similar to the House of Commons in Engiand ; and a chamber of deputies, which forms its Honse of Lorda. Every mula of the age of twenty one years, possessed of an income of about ten poinds sterling is entilled to vote. Trial by Jury is also established.

The laws of Brazil, in some respecti, are in advance of those of more enlighteued nations, for exanple;-::here are Coirts' of Conciliation, the duly of which is, to selle all disputes arising among the people if possible, and when all means fall to procure a seltilement the proper officer gives a eertificate to this effect. No catise can be brought into the ordinary courts of law without such certificate from the proper officer is produced. We commend this la wo the consideration of the respective Legislatures of these Provinces; its adoption would no doubt be the means of saving much misspent time, money, and words. But it is no use to think of such a law in these enlightened times, when we have an army of four' hưdred Lawyers scattered over the face of the lower Provinces, living out of the hard carnings of the people.

However, it is only by an array of figures that wo caí begin to estimate the extent and value of the Brazilian Empire.

This country contains an area of $3,000,500$ square miles. It is located nearly in the form of a triangle, with wo of its sides fronting on the Atlamic; one side stretches from Cape Horn'to Cape St. Koque'

- $\mathbf{8 . 5 0 0}$ miles; the other, facing the north asat, has e length of 2.500 miles. Thi colossal empire is neariy as largn as all British North Amerisa; and harger than the whole Uuited States, and secons onls in extert to China and Russia. It oxtends from Lat, 4 deg. N. to Lat. 33 dag. 3 min.S. It has an average elevation above the sea of 700 feet; still, it is nut mountanenus, nor effected by earihquakes. like many other parts of South America. The mean temperslure of the year is 73 deg. In consequence of its extensivo seaboard and internal waters, the summer heat is not oppressive. The river Amazon is 4000 miles in length, for three thousand of which it is navigable, and its tribstaries for one thousand miles more. The La Plata is 2,400 miles in extent. These wo rivers, with their affluenis, drain upwards of four million square miles of the richest agricultural country of the wurld.

Tho produc is of Brawil are, gold, silver, diamonds, rock salt,'sugnr, tea, molasses, cotton, tobacco, rice, hides, india-rubber, $\boldsymbol{l}$ coffee, nuts of various kinds, fruits, dyo woods, with a host of other products, valuable in commerce. In 1850, it contained 7,678,000 soule, the majority of whom are Roman Catholics. The principal sottlements aro confined to a narrow belt of land fronting its extensive seaboard; the settlements are not continuous. This country has all the elements of national wealth within its borders; and in place of sustaining less than eight milions it may before the close of the present century number a population of thirty millions of human beings.

Alhough the social, moral, and intellectual status of the country is far below that of the enlightened portions of Europe and North America, still it is on the ascendancy. At the time it ootained its independence, slavery and the insportation of Africans was common; since that time foreign importations of slaves ceased; and steps have been taken to liberate the slaves that are in the country; steps have also been taken to elevate the condition of the Negro race, which form a considerable portion of the population of Brazil. There is not an office under the Emperor to which a froo negro may not aspiro. The Emperor is the temporal head of the Catholic Church. All denominations of Christians are protented by law, and allowed to worship as they please. The Press is as free as it is in England. Education is making srme progress. One of the Presidents of the Provinces in his message to the Legisiature on this subject, says.-
"Primary education is morethan a mere right of the child, a duty dibcrarged towards him; it is a rigosous obligation. It is, no to sperk, a moral vaccine, which preserves the people from the woxtt of pestilences-ignorance; from those thoughts which bring a man to the level of the brute, and make him a fit and facile instrument for crime and revolution. Primary edncation is more, it is a kind of baptiem by which man is segenerated from the dark ignorance is which he was born, and aloue fit him for an entrance into civil society and for the en"oymont of these rights which are his heritage,"

These sentiments are pregnant with deep meaning, and shew the tendency of Brazillian statesmen towards the elevation of the social, moral, and intellectual condition of the country.

Among the more prominent productions of Brazil, the growth of cotton, coffee, and tobacco, inay be named. In the article of coffee alone, this country supplies more than one-half of all that is produced in the world; the ale of this article in 1859 realized the sterling value of $£ 5,638,528$. In the growth of tea, Brazil is making rapid advances, and may shortly supply us with a cheaper article, as the distance is much shorter than that to other tea-growing countries. There are numerous auriferous deposits in the country; the principal one of whioh is worked by an English company, who, during the last thirty years, produced gold to the walue of $£ 2,012,840$ sterling, which, after paying all costs, left a profit of $\mathfrak{£ 4 6 6 , 8 7 4}$. Other mines have also produced large amounts of gold. It is said that $£ 50,000$ per annum is realized annually from diamonds, amang which are found topaz, ruby, sapphire and opal. The salt deposit, on the upper Amazon, is the most remarlable one in the world; it is three miles in length, and of great width as thickness, and is sufficient to supply the American continent for a century to come. The salt is as clear and hard as ice. There is a large extent of country stored with coal of good quality.So that in all the leading articles of commerce Brazil is richly supplied.

$$
1853 .
$$

$\left.\begin{array}{lrr}\text { Exports, } & £ 3,540,494 & \mathcal{1} 12,012,999 \\ \text { Imports, } & 3,825,000 & 14,317,671 \\ \text { Revenue, } & & 5,598,579 \\ \text { Expenditure, } & & 6,163,893\end{array}\right\}$ Sterling.

In 1853, the navy consisted of forty-two ships, carrying a total of 301 gans. Her army numbered 22,54C regular soldiers ; and her national debt, in the same year, amounted to $£ 12,392,000$. In 1859 , her navy numbered fifty-four ships, thirty-two of which were steamers; the whole carried 326 guns.

Her foreign trade, especially with Great Britain, is on the increase; and her credit is good.

Agriculture is making rapid progress; large quantities of land are being laid off for actual settlement, and roads are being extended in all directions; even railroads have been constructed.

The language of Brazil, is Spanish, Portugese, Dutch and English. The coins are similar to those of Portugal, consisting of reis, gold and silver pieces; 200 reis being equal to eight pence sterling.

Here, then, is an Empire with a constitutional sovereign, and an enlightened cabinet, pushing forward in the scale of nations; and free from the destroying and blighting evils that characterize the nations of which it was a calony, or even the Republics of North and South America.

The little Republics of South America have no stability; they keep up a succession of wars with each other, as well as civil commotions. And it would have been well for the great Republic-the United States-had it organized a limited monarchy. The world is not elevated sufficiently high in the scale of moral greatness, to permit the mass-the democratic element-to rule; this fact our neighbors of the Union have now discovered to their sorrow. In Brazil, the power is in the monarch; in the Union and other American Republics, the power is vested in the democracy, which is capable of being purchased, and used for the worst of purposes. It is only the prevalence of education that has kept this great and most enlightened Republic from civil war,long ago.

Not so, however, with the Brazilian monarchy, it is stable; and while it has all the benefits of representative government strongly marked, and affords the necessary facilities for the development of the revenues of the nation, and moving on towards a more exalted standard of national greatness,--it is able and ready to suppress disorders at home, and support a character abroad.

The above brief epitome of the state of Brazil, we have compiled from various reliable sources; it may lead the mind of our youthful readers to think about a country, of which we know but comparatively litile. The descriptions given of this country, by our school geographies, are very meagre, and do little more than teach our pupils that such a country exists in South America.

## The Preservation and Application of Manure.

Some one has said, that "A farmer's gold and silver is deposited, in its unrefined state, in his manuure heaps." In new countries, where the virgin soil is very productive, this adage is not so fully applicable as it is to long settled districts, where continual cropping has deprived the soil of its fertilizing properties, and rondered artificial appliances necessary. It is a settled principle among chemists, that if we cantinue to extract from the soil, those properties necessary to sustain vegetation in a healthy state, we must restore them in some way, or else the soil will refuse tc gield to our wants. To manage this maiter right, requires both skill and attention on the part of farmers. Soil and climate have to be taken into account.

We believe that many of the common prantices of the country are at variance, in this matter, with its best inhrests. Some leave their manure heaps exposed for nearly $\&$ year to the climatic elements, without being covered, when a large portion of its fertilizing propertios are absorbed by the atmosphere or the surrounding lands, or escapes, during every storm, in a liquid state. Soms draw their manures out in the Spring, others leave it in the barn-yards, exposed to the storms
of Spring, the scorching suns of summer, and fall storms, when it is drawn upon the lands, and either ploughed down, or left in heaps, or scattered over the surface, until the following spring. Some bury the manure from four to six inches deep in the soil. Some top-dress their grass land in the fall, others in the spring. Some top-dress wheat and barley lands before sowing, others after, while others think it best to bury the manure with the plough.

Now, which of all these practices is right, or are they all right, under certain circumstances? is the question for solution.

We believe, first, that all manures should be housed, and the liquid manure saved, and grass and grain land sprinkled with it in the spring.

In the second place, as to fall and surface manuring, much depends upon the situation and character of the soils. To surface manure the sides of hills, in the autumn, especially if the soil is formed of clay, would be little better than casting the manure into the sea, except that it might settle into the calleys and onrich alluvial grounds that do not require it. Manure placed on soils so constituted and situated, should be ploughed down, in order to retain its influence on the crops. To spread, or even bury, manure upon dry, porous soils, in the autumn, results in loss; except the uppor soil is thin, and resting on a clayey soil. Every rain storm that falls on porous soils, while unfrozen, causes a waste of manure. The manure being lighter than the soil, descends too deep to be of much benefit to vegetation; without, as some think, the virtue of the manure will ascend to feed the plants.

Heavy, glutenous soils, may be manured in the autumn without much loss of manur3, if ploughed in; while light, porous soils should be manured in the spring, in order to preserve the benefits of the manure to the crop. Clayey soils retain both manure and water, while porous soils permits both to escape suddenly; consequently these two classes of soils require different treatmènt. Some of our clayey lands form the best agricultural districts of the country when properly drained and pulverised ; such soils require time and sand to make them profitable; while the light soils on the other hand, require to be mixed with the heavy soils in order to retain manure and productiveness.

The following remarks by the Albany Cultivator, touching this matter are to the point :-
For a long time there has been a difference of opinion in regard to the manner in which manures should be applied to the soil. We refer more particularly to the application of manures to what are called tillage crops-it being generally conceded that grass-land may in some cases be advantageously manared on the surface. But in any given case, and for alnost any crop except grass, there will scarcoly bo an agreement of opinion as to whether ordinery stable or barn-yard manuro should be buried eight inches, four inehes, or simply mixed alightly with the soil by the harrow. It may bo said that the charketer of the soil, the kind of crop, and the condition of the manure should govern the mode
of npplication. Undoubtedly it shonld, to a great degree; bot the object is to settle a special case. in the first place, and then dispose of others by a similar test.

Of lats, the idea that manure should be leftentirely on the surface of the ground, has been a prominent topic in agricultural journals. It appears in striking contrast to the deep-burial notion, which has been urged under the plea that the virtue of manure was sure to rise, whatever the depth of earth whicn covered it. There is a point of much consequence in counection with surface manuring for cultivated crops, although it is not involved in the quegtionas to what mode of application confers the greatest fertility. Is is this : manure left on the surface, unless thoroughly decomposed and made fine, is an nbstruction to culcivation by clogging the implements used for that purpose. If the manure is coarse and strawy, it constitutes no tifling obstacle with crops for which the harrow, horse-hoe or cultivator in used. It would therefore be desirabio, in making an experiment to test the advantage of the differont modes of of applying manare, that it should be so fine that what is lett on the surface will not occusion the difficulty alluded to.

## How Animals aud Vegetables Live.

In the grand laboratory of nature, each opposing phenomena counterbalance the other; what is poison to the animal is nutriment to the vegetable. The atmosphere is composed of two distinct gases, called oxygen and nitrogen gas ; they stand in the ratio of twenty-one parts of the former, to seventy-nine of the latter. Both these gases are deleterious of themselves. An atmosphere composed of such proportions of these gases, is weil adapted to the lungs of man. No mãn could live in an atmosphere composed of oxygen alone; and no man could breathe nitrogen without being poisoned. There are numerous disturbing forces at work in the world, leading to a disorganization of these well balanced principles, displayed on the surface of our planet, by a wise Creator, that would lead the mind, at first chought, to suppose that the atmosphere will soon become unfit for man to respire. We know that every croature that breathes, absorbs the oxygen, and throws out at every respiration nitrogen and carbonic acid gas; every one of the millions of fires that burn, and every one of the millions of living creatures that breathe, consumes the oxygen and pours into the air carbonic acid gas. Still the air is equally pure, as if no such operation had gone on. Why, because, whilst animals absorb oxygen and give out carbonic acid gas, all vegetable substances absorb carbonic acid gas, and throw out oxygen. And thus the vegetable world, and animal world, counterbalance each other's effect upon these two great departments of nature.

How little do we think that these phonomena are continually at work
in the kingdom of nature. And that it is through their combined effects, that we live and breathe. What wisdom is here displayed by our Creator, for our well-being. A few parts more of the one of these elements, and less of the other, would cause disease throughout the worl'd, and the absence of any one of these properties, would cause sudden death to all living creatures. How important then, it is to have these two elements of animal and vegetable life in proper proportions: the ventilation of our dwellings, so as to allow these gases to pass freely around us. Those persons who wers cast into the Black Hole at Calcnttso, many years ago, died at once for the want of oxygen gas ; they inhaled and re-inhaled the little oxygen present, natil the air of the apartment became nitrogen-poison. And so it is in all cases where such a disproportion of these necessary gases exist:death is the inevitable result.

## Emigration to the Lower Provinces.

## No. 2.

In my previous No. I geve you a brief account of the extent and capabilities of the Lower Provinces of British North America. I propose now, to extend those remarks, in order to show more fully the importance of this section of America to Great Britain ; not only as affording space for the settlement of a portion of her surplus population, but that also in astragetical point of view, they are no less important. In this respect they may be asid to be the key to Canada and the territories lying beyond.

The following obsarvations, extracted from a speech racently delivared in the House of Lords by the Earl of Derby. show the view taken of their worth by that eminent statesman. His lordship says:
"The Lower Provinces of Nova Scotia and New Brunswick, from the geographical position, and naval and military capacities, from the resources they afford in time of war, and the advantages they are aole to offer in time of peace-he was not sure if he would not say these provinces, infaitely less extensive as they were, were not of much greater importance to Great Britain than all her Canadian and other North American dependencies."

As points of defence aganst a foreign foe, it is true they are important, but more espeeially' the advantages they are able to offer in time of peace"-the vast extent of rich land-the thousands of farms, of a hundred acres each, they offer at a nominal price to the starving thousands of the mother country. It is in this respect that their great worth more particularly lies. They contain all the natural elements of a nation's wealth, and all that is wanted to raise them to the dignity of a nation, without assuming the title, is the expenditure of labour and capital.

But it is only in resources, and not in population, that they can afford to support the mother country either in peace or war. How could so tew people, scattered over so vast an extent of country, afford much aid? If all their inhabitants were placed on P. E. I, which is not n tenth in size that of N. S, or a thirteenth that of N. B., it would not je half populated; such are "the advantages they are able to offer." $20,000,000$ acres of ungranted land, which may be purchased at the nominal price of ten pounds sterling per hundred acres. And in New Brunswick, where the largest extent of ungranted land lies, payments for land may be made in labour on the roads adjacent to the lands; thus enabling a man to become the owner of one hundred acres, enough for a farm, without paying one shilling in money. The approaches to these provinces by shipping, at all seasons of the year, arc iighly advantageous. They have, in the aggregate, a coast line of 1,600 miles, which is inden'ed by numerous harbours, where ships of the largest class can enter; indeed, it is difficult to find twenty miles of this extensive frontier without a ship harbour. In addition, navigable rivers penetrate ail sections of these provinces. Add to these a net-work of rouds, with bridges spanning the rivers; along these roads thriving settlements are formed-in short, the whole frontier may be said to be one continuous settlement. Roads are extended into the wilderness in all direstions, and across the country so as to bind one settlement to another. On many of these roads there are but few settlers,so that the way is prepared for many additional satlers. The principal part of the roads of these provinces is superior to those of many of the long inhabited countries of Europe.

Nearly every settement has its weekly mail passing through it, !eaving the naws of the day in its centre. On some roads, mails pass twice, on some thrice, and on the great leading road between Halifax and Canada, six times a week: almest all the towns and villages are connected by telegraph hines; and the whole to the other principal places on the American Continent. An aggregate of 240 miles of railway is in operation.

No one, in order to find good land, need go far into the wilderness beyoud the sound of his neighbour'saxe. The educational institutions of these provinces are far in advance of many of the States of Europe; besides institutions of a higher order, 2,500 schools dot the face of the country ; indeed wherever half a dozen families are gathered together, there a school may be seen, deriving the principal part of its endow. ment from provincial funds. Mills for the manufacture of flour and lumber, carding machines, and other manufactories may be counted by thousands.

These, with hundreds of other advantages which the first settlers in these provinces, and for eighty yeare aftex, never dreamed of, place future omigranis in highly advantageous circumstances compared to those who have preceded them.
A. M.

Tae Colonial Empinb, is the tille of a new Paper published by Mr. Thomas Mcflenry, St. John, N. B. It in devoted to Politics, Literature, and general Nows"; its moto is, "onward and upward." It is neatly printed and ably edited, and its pages are well filled with instructive matter. We hail this paper, in the Co'onial field, as an important auxilary. It is published at the low price of $\$ 1 \frac{1}{2}$ per annum.

The Chkistian Visitor, comes in a new dress, and much improved in size, matter, and appearance. It is now entitled the New Brunswiek Baptist and Christian Visitor.

The Temperance Telegraph, has also undergone change, both in appearance and name; it is now called the Temperance Reformer and Telegraph.

These papers are all the proporty of Mr. McHenry.
Mesars. Edrtors:-I wigh to call the attention of your numbrous readors, especially inventors, their agents or alforney's and writers gene "ally, to the fact that a distinction between the script letters, I and $J$, is as essentially necessary as the diatinction between 6 and 9 . It is a mark of great carelessness or slovenliness in writing, to substitute, from mere caprise or habit, the one for the other, reising, as it invariably does, suspicion as to the culture or scholarship of such writer. This lazy substitution of letters often leads to misunderstandings and delays in specifications, deeds, wills, and other papers in seript, as it often does not eorrespond with the more carefully printed letters in the drawings. In often causea delay, and sometimes bitter digputes, when, in the address to individuals, I is made to stand for Isanc, and also for James, Ira or John. Writing Ian for Janoary, Iune for June, Ino. for John, sce, is not often misappreherded; but sometimes, when the context is obscure, the proper writing of this letter would determine the sense, and not lenve as to speculate whether $\frac{I}{}$ stands for June, Judge, John, Isaac, Indigo or Iron.

Where initials are used for abbroviation, writars have no right to sacrifice the correct exaention of a letter to the whim of what is vulgarly deamed taste or flourish, by not allowing the letter $J$ to drop properly below the line of writing, its distinguishing featare, and which is the unalterable form in standard acript letter,

The fanlt here cited, has in part, obtainod from the old but false and whimsical mode practiced by not the best pablishers and printers, of omitting, in our spelling books, the letter 1 or $J$, thereby leading children to think that the two letters are synonymous, than which a more unscholarly sapersticion never haunted the Engiish atphabet.
It is a principle in abbreviations that the mode adopted be in all cases unmistakable; but when it happens, as it frequently does, that ignorance tramples upon this priaciple, and slipshod caprice adds to this abbreviation a leading letter that is andeniably wrong, the communication of ideas is uttorly im. possible.
B.

