INFORMATION CONCERNING THE CLIMATE OF RED RIVER.

66 WHAT is the climate? To answer this ques-tion in a manner commensurate with its tion in a manner commensurate with its importance, especially it we should take the whole territory into consideration, would necessitate the

importance, especially it wo should take the whole territory into consideration, would necessitate the writing of a series of articles extending through a number of issues of this paper. We presum, however, that our Canadian triends will be satisficated to the present with a concise account of our climate and we need not particularly dwell upon that of any other portion of this country other than that which might be term of the selective other than that which might be term of the selective other than that which might be term of the selective other than the dimensional of the selective of the selection of the climate. Nothing is more delusive than the idea (secondomous) ontertained) that lines of Latitude govern the climate line common supposition is that Latitude (6 or 70 carries the same amount of heat or cold sunshine or rain, or depth of snow all around the globe. That whatever grain or fruit will not grow and ripen in one place upon a particular line cast, will not flurish or bear fruit in another place to the westward on the same line. It is an error especially as regards the climatology of the north temperate zone. Taking the map of North America let us illustrate this positio by following the circle of 50 north Lat across the continent, commoneing in the east.

After crossing the northern peninsula of Newfoundland it touches the continent in the rockbound and extremely inhospitable coast of Labrador, a climate almost fally undiffed for the habitation of civilized men. It then crosses a portion of the Province of Quebec, where we find the climate of newhat ame forest-till the country is not adapted or agricultural pursuits. The line continuing westward crosses that portion of the Hudson Bay Company's territory lying between the Dominion of Causda and James' Bay the summer weather constantly increasing in length and, it is shown by the immense forests it raverses and facilities it affords for garden vegetables a great softening of the climate when compared with that of Labrador, or even with the north-east

not this a remarkable contrast to the sterile coast

Two this a remarkable contrast to the sterile coast of Labrador directly to the east?

It is a remarkable, and in many respects an unaccountable fact that the isothermal lines tend rapidly northward as they cross the coutinent and in this do we not see a remarkable provision of Providence for the future millions who are to inhabit the interior of this vast territory?

The climatic line of contral (intario after passing this settlement in lat 50°, tends rapidly towards the north thus actening the extremes of the and cold and sfording delightful summer weather as far north as the most of the passing the contraint of the Rocky and 58° in the neighbourhood of the Rocky Mountains. At Fort Dunys and on the Peace River north thus softening the extremes of theat and cold and sflording delightful summer weather as iar north as 65° and 65° in the neighbourhood of the Rocky Mountains At Fort Dunve_n on the Peace River lat 65° we have 3260 as fine voot crops as can be grown in many parts of the Dominion 1 (80) bushless of potatoes have been raised from 30 bushles of seed Turnips, cabbages, carrots, onions, etc do well Wheat and barley thrive there also. At kort Vermilion in lat 55°, everything that has been tried thrives and attain perfection All through the satabetwan to the south of Peace River, there seems to be little difficulty in carrying on any kind of agriculture. Du natural grasses, the wild peas and vetch grow most luxurianty and to show its unusually time climate, our latest news assureaus that there is intuoor on snow in that region this winter and the prairies are on fire the same as in summer. This of course is a very unusual instance but as this is a very mild winter all over the continent, we mercial state the fact to show that while we have from it to 12 inches of snow on the level the Sakatchewan that nothing to speak of We think we have shown sufficiently plain that degrees of latitude have very little to do with church it can also as a constant of the contract of the same as the concerned extended to the severe seems.

We think we have shown sufficiently plain that degrees of faitude have very little to do with chimito as far as east and west is concerned aithough it cannot be deciled that starting from any point on a certain degree, and by going due north the rigour of the citimate will vary according to the distance you are from the starting point that will hold good here as well as in tanada, only we have from the to six degrees the advantage of you.

Laking an average of a number of our winters it will be safe to say they set in about the let of December. There are more variations in cold and heat they the

There are more variations in cold and heat than the thermometer indicates. We are tolerably well acquainted with Canadian weather and for some reason 10° below zero here does not appear as cold as 10° above zero in Canada

zero in Canada

This is a fact that many will testify to (ases of frozen limbs and noses and of freezing to death, are not as a minor here as in the Dominion

The depth of snow varies from one to 'wo test on the level I it is about one toot into winter and last winter it was about 13 urches

The grand charm of our winter consists in its onchangeablity. Winter while it is winter and no shifting about and humburging one with thaws and the genial rays of old sol seem to absorb the greater part of the stow by craporation. Our rivers are existed to break in as a general thing, about midpart of the stow by evaporation. Our rivers are ex-pected to break up, as a general thing, about the mid-dle of April, about the same time the snow disappears

from the plains, the spring birds appear in a day or two, and the prairie flowers are in blessom immediately. The quickness of the change from winter to spring is absolutely astonishing to a stranger. One week everything looks as dreary and desolate as in the comber, and the next indis the rivers open, the snow gone, prairie flowers in bloom, ducks, geece, pigeous and other birds on hand, and the quickness of evegetation. It is like looking upon a magic picture, so sudden is the change from winter to summer.

Dame Nature has no bashim hesitancy here 1 cs terday she was dressed in a solver gray and to morrow she will have donned a gail of living green.

We have upon our table a schedule of the progres of the secarous, taken from the journal of a gentleman who has taken considerable care and interest in the subject for the last six years, and we shall give the average dates for that time, that or Lanadia intends may see and judge for thunesses.

Water lovel generally make their appearance during the first week in April, although in 1863 they cann on the 20th of March. In 1845 on the 1th.

Pigeons, blackbirds &c., are seen about the middle of April in 1803 on the 7th Snow is off the plants about the same date, in 1863 on the 7th.

on the (iii.

Red River breaks up about the 18th of April, in 1863
on the 7th; and has been broken up by the 1st April,
though rarely 80 800n.

The Assimationne breaks up two or three days later

every sesson.

graine flowers are in blessom during the last week in April.

in April.

Plaughing commences about the middle of April.

Trees in lea, about the 20th of May.

Wild plum and cherry trees in blossom about the 20th of May.

Wheat in ear about 6th July.

Barley harvest commences about the 9th of August, and the wheat harvest a week later

Potatoes are taken up the 1st of October.

A transient fail of snow of two or three inches in depth, and insting a comple of days, takes place about the 20th of October, after which our Indian summer sets in and we have the most delightful fail weather in the world, which lasts and the latter part of November, winter generally setting in about the 1st of December.

As to summer frosts, we have them occasionally,

of December.

As to summer frosts, we have them occasionally, and so do you in Canada. They cometimes do harm to the crops to places, and so they do in Canada and in the Northern states. Do you remember the great foot of June 19th and 20th in 1859. We do at any rate, and have never seen anything quite so bad in this settlement.

this settlement
Our space will not permit as to dwell upon this subject much longer and we will just state that in Red
River we raise wheat tweighing 65 lbs to the bushel, barles, rye, oats, corn, buckwheat, peas, potatoes, turnips, beets, carrots, parsinjs, onicus, tomatoes, water and musk melons to perfection. At Rossville, a Methodist mission, some three hundred and fifty miles to the direct north of this so thement, they raise very fine water molons.

To sum the macter ap, our springs are shorter, our summers as long, our autumn lar finer, and our winter a little longer and not so changeable as in Ontario.

Untario.

Untario.

As far as healthfulness is concerned our climate is at that can be desired. We have no disease peculiar to the country, and ague is not indigenous to the soil Upon consultation with our two best physicians we mud that they only know of two cases each, and they were brought in from abroad.—Aor' Wester.

REET ROOT SUGAR.

N view of the possibilities of a failure in the supply In view of the possibilities of a failure in the supply of cane sugar from Cuba, the Cleveland Leader expresses the opinion that it would be well for the American people to look carefully into the project of making sugar from the manger wurzel or rugar is not dermany and France. The suggestion is a lood one sorghum is practically a latitude but he of severy reason to suppose that the best is auscept bloof producing very favorable results whenever the experiment can be intelligently undertaken Nearly the whole of the sugar used by France and Jermany is defined the sugar used by France and Jermany is defined in the sugar used by France and Jermany is defined in the sugar used by France and Jermany is defined in the sugar used by France and Jermany is defined in the sugar beautiful the successfully transplanted from thes. Countries to our own, it is within reason to assume that the beat win in proper hands, be found-qually adaptable to the extended of the sugar beat in the sugar beat in the sugar beat in the sum of the sugar beat in this country was undertaken in himols, and tailed through want of experience imperient machiners and a general diregard of all that the experience of Europeans has demonstrated with regard to the process. Immense suns have been spent in Europe in experiments with machinery, methods of ripening, extraction of the sugar, and economy of refuse, and with these costly deductions siready in hand we ought not to be long in reacting successful results. of cane sugar from Cuba, the Cleveland Leader tuse, and with these costly deductions siready in hand we ought not to be tong in reacting successful results. It is estimated that the soil of Tennessee is capable of producing ten tons of tens is to the sure, which whi yield from 1600 to 2000 pounds of sugar. If this result is actually attained there need to an doubt as to the profits of the enterprise. It must be acknowledge, nowever, that the machinery is emborate and costly that plenty of water is absolutely essential, and that at first it will be necessary to import skined labor from Europe. Nevertheless, in view of the enormous consumption of sugar in this country sho the outer tanty of our nuture supply from the West hiddes, it is to be hoped that exhaustive or perincents will be made the coming season, not only in Tennessee, but among the bottom lands of this, also perinced.

FISH OR FIGHT.

Tribune fulminates over the New Dominion of Canada and the insubordizate Province of Prince

L'anada and the insubordinate Province of Prince
L'anada and the insubordinate Province of Prince
Laward Island in each a fashion as may well sour all
the nails and spoil all the beer between Labrador and
the saskatchewan. It is all, too, about fish. The
philosopher of Graham bread is smitten with a cod a
tail in the house of his friends. The turnips of the
brahman of Chappaquu are cast in his face by them of
his own household.

The Iriome has discovered, it is siways making such
discoveries, that a high civilization is in a marked
degree, due to variety and abundânce of food." Alio,
it has learned two fear a little late in the day; that fish
goes to the making of brain. Wishing, therefore, to
become highly civilized and t. make for i self brain,
the Trilane demands fish. It roars for fish, indeed, as
dicresty as John Hook, in the tamous speech of Patrick
litery, bawing housesty through the American
camp. Beet' beet."

What has all this to do, you will as k, O reader, with
the New Dominion and with Prince Edward Island?
Much.
The Canadian waters and those of Prince Edward
island are profile of fish, of fish needed "so the Tritume assures us, for "the progress of that large portion
of North America which is governed by the United
States."

island are prolific or ish, of "ish needed "so the Tribuneasures us, for "the progress of that large portion of North America which is governed by the United States."

The people of Prince Edward Island having been visited isst summer by a Congressional Committee, with B K. Butler at its head, are so horribly scared at the notion of a return of their fearful guests that they are quite willing to let us have all the lish we can catch in their waters. But the New Dominion is more plucky and less libers!. Canadian fish, it appears, are not to be caught with any but a "reciprocity" balt. Ihis the Tribune, dazed by its habitual innactes on the subject of the "balance of trade," declines to list the New Dominion. It prefers to fight fon its fish. It informs the Canadians that, while the rights of nations are seen to be proper." and do not contravene the rights of humanity, they may be respected;" but that when they cease to be such, then it is time for the weaker to go to the wall and their "rights" to become technical it is a right of the Canadian hation to say who shall fish in their waters. But it is a right of mankind, the Tribune thinks, that people who live in New York who lack brain and need brain lood," should go and take it whether or not. This doctrine is equally beautiful and simple, and it is susceptible of a general application with the happiest results to private and to public affairs. If a right of property for example, will be found, in accordance with this doctrine is required to the prefective respectable until they contravene the rights of humanity. It is a right of property in a flurid avenue baker to keep his loaves on his own shelves till they are bought and paid for. But it is a right of humanity in Jack Cade, being an hungored and penniless, to march into the said baker's bakery, and, knocking him down with a handsome quarter. The baker's 'rights' become 'technical.' In the present state of our extinonal affairs, however, and under the existing pressure of the national dipt, we hope the Tribun

WHOLESALE TRADING.

THE foronto press, no doubt, exaggerate the success attending the efforts of capitalists to establish a attending the chorts of capitalists to establish a whole are trade in that city. The Montreal journals, on the other hand, in belutiling their attempts and langhing at the results are, no doubt, committing an error in the opposite direction. The belance of fact with perhaps, be even arrived at in admitting the advantages and capabilities possessed by Toronto to do a large amount of trade in the western pennisula, and in taking it for granted that a certain amount of success has attended the efforts which have been directed to enter and whit, arted by admittant means to exan taking it for granted that a certain amount of success has attended the efforts which have been directed by energy and skin, arded by abundant means to give the taking as a stantant of the stantant of the city of Toronto. The example of Toronto is an encouraging one in that it shows that the old condition of things may in some measure be restored, that of the leading cities and centres of population doing at least in part the wholesale rade of ine-errounding country. It is concluding for the merchants and moneyed men of Kingston to consider whether more could not be done in the way of wholesale trade than siready is done in the city. We have the wholesale trade than siready is done in the city, as of boots, shoes, cloning, machinery, hardware, musical instruments, etc. but it is noticeable as a great defect that a large dry goods house solely devoted to the wholesale trade is lacking. It is believed that if the constry customer could be assured of being ance to buying a highest a large dry goods house solely devoted to the wholesale trade is lacking. It is believed that if the constry customer could be assured of being ance to buying a highest a large of the grant for the supply in his two and at raise equally cheap, the advantage would be with hingsion over Montreal, and that the surrounding country. There is an opening here, it is thought to embark in the wholesale dry goods trade - a business which it would be to the interest at the wholesale grocers and other desires beging only in the rest, the system of employing conversees of arimmers must be the same in all parts of the congistry - Kingston News. among arummers must be try. - Kingston News.