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(R1)

## HUDSON'S BAY RAILWAY ROUTE

VIA

MISSANABIE AND VALLEY OF MOOSE RIVER.

## REPORT BY

W. A. CHARLTON, M.P.P.,

With Maps and Illustrations.

ALSO AN APPENDIX CONTAINING SUPPIEMENTARY REPORT BY CHAS. T. HARVEY, C.E.,

## PRINTED BY ORDER OF

THE LEGISLATIVE ASSEMBLY OF ONTARIO.


TORONTO:


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1898 \\
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## HUDSON'S BAY RAILWAY ROUTE

## VIA

MISSANABIE AND VALLEY OF MOOSE RIVER.

Laneidoch, Ont:,
December 27th, $1 \times 97$
Hon. A. S. Harily,
Attorney General, and Premier of Ontario.

Dear Sur,--I have the honor of informing you that the request contaned in your letter of September 9th last, that a personal examination should be made by myself of that portion of the Province of Ontario north of the Canadian Pacific Railway, proposed to be traversed by the Sault Ste. Marie and Hudson's Bay Railway Company, with a view of the Government being informed of its capabilities and chancteristics, and the inducements which exist, or may be ereated, to secure commercial aceess and transit facilities through the contiguons wilderness to the shores of the great sea, which forms a part of the northern boundary of this Province, has since been complied with, in a manner and to an extent indicated in the accompanying report.

The points npon which you desired to oldain information were stated:First, as to the character of the country.
Second, as to the soil.
Third, as to the variety and quantity of timber, minerals, ete.
Fourth, character and prospects of future trade between Hudson's Bay and main lines of railways passing through the Province.

Fifth, as to the extent of trade between points mentioned.
Sixth, source of supply in the Hudson's Bay territory, the quantity, value, ptc.

You stated that these are all important matters as to which information is desired from the company, and that the Government think it important that they should have some information obtained from their own standpoint as distinct from that of the Company's.

You also stated that owing to the lateness of the senson, I might not be able to obtain as full information as might be desired, but could no doubt ol,tain general information upon all of them.

Acting upon your suggestion that information is desired from the Company, $I$ addressed a letter, November 10th, to their Manager and Chief Engineer, C. T'. Harvey, Espl, and have reeeived his reply in a report of twenty-three pages, in which her deals with the fonth, fifth and sixth questions very fully, and refers more briclly to the others. I attach his report and fonr maps areompanying same, as an appendix to my report.

I hase the honer to be. Sir,
Your most obedient servant,

W. A. OHARLTON.

## RISPORT

The undersigned respectfully reports that, in necordance with the request of the "Governor-in-Conncil" I heran preparations for making a personal examination of the Northern Section of the proposed ronte of the Sanlt Ste. Marie and Hudson's Bay Railway, on the 16th day of Septrmber last. My instructions were to accompany the surveying party, who were making the trip in connection with the proposed ronte. Severnd days were oceupied in getting tents, camp utensils, etc, ready for the trip. I arrived at Missamabic Station, on the Canadian Paeific Railway, on the 21st day of September, aud met C. T. Harvev, Esq., Chief Engineer for the Company, and Mr. G H. Worthington, formerly of Toronto, who desired to become informed from personal observition as to the fensibility of the ronte fir milwny proposes.

At Missmabic wre were fortunate enough to obtain a large canoe, capable of conveying ten men with 1,500 pounds weight in camp equipage and supplies. On the same day we completed the organization of a crew of six men, of whom two, acting as guides, were natives of the Monse Factory Settlement on Hudson's Bay, and had been sailors in the Fur Company's vessels there; they had also been several times up and down all the lranches of the Moose River, and had acted as guides for geologists mul others who have explored in those regions. Some of our other men were hunters. who had heen through the comntry east and west, so that from these men alone l was able to get intelligent information as to a large portion of the Moose Rivar comntry.

Maps.-It should here be stated that the important matter of obtaining reliable and aceurate maps of the region. to be tri versed was forced upon my attention by finding that the one furnished to me by the Provincial Crown Lands Department was too general and on too small a scale to be of any service. The Railway Company provided a map of their preliminary survey line. which, however, bore more to the east than the one now preferred hy their engineer, and also a map of the section of Moose River for twenty miles south from the outer har, made by the surveying party of 1891, with soundings, showing the depth of water inside the river, and outside until a deep sea channel was reached. This was of special value so far as it went, but left a large portion of the route unindicated. This want was found to be best supplied by adopting a map published by the Dominion to accompany Dr. Bell's Reports of 187i, 1877 and 1881, made to show the geological features of the Moose River Basin. This portrayed the west or Missamabie Branch of the Moose River to within a few miles of its mouth, and marked the rapids and falls along the same, which were found, as we passed,

M Company. ginetr, C. 'T'. ce pares, in r, and refers companying

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## e request of

 al examina. Marie and instructions connection tents, camp II the Canaarvey, Esq., of Turonto, feasibility, capable of ud supplies. n , of whom m Hudson's ey had also er, and had ose regions. ry east and tion as to a

## obtaining

 d upon my cial Crown my service. line. which, gineer, and in the onter he depth of ched. This ute unindipublished 1881, made trayed the f its mouth, we passed,very relinder ; consequently it is adopted as the Insis of arriving at the distances mentioned by comecting it with the malway surver of the northerly section of the river on the map nccompanying this report. The line of the Camadian Pacitic Railway has also been laid out upon it with approximate necuracy.

A start was made northward from Missamabie station, on the C. P. R., on Wednesday morning, September 22nd. Our cance was 29 feet long, 5 feet 6 inches wide, and $\mathbf{2 4}$ inches deep; whell all pmides were going we would make from five to six miles mon hour. We came to the tirst portage in a little over two hours, crossing from Dog Lake over the divide nbout nine hundred feet into Crooked Lake. These lakes are nearly on a level, Dog Lake eaptying into the Lake Superior waters, and Crooked Lake into the Moose River waters. Passing out of ('rooked Lake by a portage of about the same distance we reached Missanabie Lake, and by night had traversed the length of that lake to New Brunswick House, the Hulson's Bay Post, at the northerly end of the lake, about tifty miles from Missamabie Station. We were hospitably received by Mr. Spence, the agent of the Hudson's Bay Company at this point, and remained there over night. Next morning we continued ourjourney north, down the Missanabie River, camped at night in what is known as the Long Swamp: next night we camped at Split Rock, or St. Pete's Portage: next day, passed Sounding Falls, or st. Paul's Portage. Many of the rapids bear Indian names also, for instance, Waus-quag-a-me. or Smooth Water Enll.

Our daily routine, when weather favored, was to call the men at 4.30, take breakfast at 5.30 , and start on our journey at 6.30 or 7 at latest, paddle and portage all day with the exception of an hour at noon for luneh, and stop to camp between 5.30 and 6 . It usually took us nearly two honrs to get well camped and supper over.

On the afternoon of September 29th we reached the Long Portage Falls, the last one on the river. This point is considered to be 200 miles by river and lake from Missanabie, some say 250 . hut in a air line to the nearest point on the C. P. R. it is about 120 miles.

The fall of the river at this noint is indicated on Professor Bell's map as 140 feet, the water rushing through a deep canyon where we could not follow its course. We made the portage of one and a quarter miles and camped at the foot of the Long Falls. We have met with interruptions more or less each day sinee leaving Lake Missanabie, having made thirteen canoe portages, and twenty other portages, where the canoe was floated down the rapids with part of our load. The river from Lake Missanabie to Long Portage Falls is a stream varying from about 200 feet to 500 feet in width, some places deep slack water for ten or fifteen miles, and at other points wild rocky rapids and shoal water. Some of the branches are rivers of considerable size, the Kabinakagami (Kab-a-na-kog-a-me) or Mattawishquaia (Mat-thou-wis-quaw-yah) is the largest; it is the outlet of a chain of lakes north of the C. P. R. and west from Lake Missanabie. This portion of the Missanabie River, south of the Big Falls, has in my judginent very little commereial value for transit purposes; the river course is too tortuous, portages too numerous, rapids too dangerous. At the Long Portage Falls the character of the river radically changes, there being no more falls on its remaining course to the sea. Immediately below the falls are short stretches of rapids with boulders interspersed among them, hut when these are passed only gravel rifts are found in rapid water, and our guides report that this fcature existed without change to tidewater. They also report having brought barges up to this point londed with fifteen to twenty tons of supplies from Moose Factory.

## Rover Thansit

My conclusions as th the transit features of the Moose or Missmabie River are that from Lake Missmabie to a short distance below Long Portage Falls it is of little value, but from Conl River, or perhaps severnl miles above, from some point below the Big Falls to James' Bay, the river is navigable for light draft boats from about the first of May until the middle of July, and possibly much later in seasons when the ranfall is considerable. At the time of our inspection, Octuber lst, the absence of rain for min masually long period had reduced the volume of the river helow its average, but one day's moderate min on our return trip 1 aised the whter at our camp twelve inches within twenty four hours. On September 330 th we held a consultation to determine whether, owing to the lateness in the seasom, we conl. safely contime on to Noose Factory with the expectation of getting lack to Missanabie hefore the smull lakes at height of land would he frozen over. Our guides thought it would be impossible for us to d so, ins it would take a month of fair weather, and by making allowances for st my days too bud for travelling we would be sure to reach the time when those lakes would be frozen over. We therefore decided to go the next day down stremm ten or filteen miles to Coal River, retmon to camp in the eveming mud start south the day following.

My main object in wishing, if possible, to go on to Moose Factury was that we might make an examination of the harbor at the mouth of Moose River. but as the Company have a plan or diagram prepared by their engineers in 1891. with soundings appended, some of which extend for milrs senward. I deemed it unnecessary to contime the jommey for that purpose.

Coal River.
On Fridny, October 1st, we went down the river to the mouth of Coal River, in small stream coming in from the south-east. We arrived at the mouth at $10.45 \mathrm{a} . \mathrm{m}$. Landing on the shore we left our canoe and walked up the deep valley (through which the small stream flows) about a quarter of a mile, in search of coal. We found some specimens of lignite and burned some on our fire when getting dinner. The specimens were black, some like colored bloeks of wood, others stony, others like lumps of blac: earth. The smoke from our fire had a coal gas odor. At one point in the river bank I saw a seam eropping out, commencing about three feet above the water and holding the same appearance below the water; depth of vein not determined.

Went back to our camp at Big Falls in the afternoon and started south next morning, October 2nd.

I kept a diary from the time we left Missanabie, writing up fully all the events of each day, making notes of the country ns to soil, timber, rock formation, etc., as we passed along; giving the names and length of each portage, noting down all fentures of the journey which I considered might be of use or interest for reference in the future.

I will quote here from my diary portions of one or two days' records:
Sunday, October 3, 1897.--Lovely morning, no frost last night, mild as summer; smoky atmosphere ; late getting up this morning, did not take breakfast until 8.30 ; decided not to move camp to-day, will all take a good rest and start early to-morrow. Indians have hymn books printed in English and Ojibeway; they are singing some. I got Pierre Kawmenokence to assist me in the pronun-
ciation, and spent a long time reading the hymns in Ojibewny. We spent the day reading, talking, cooking and eating; a day of rest in the Moose wilderness. Most of these Indians are members of the Episcopal Church, living in the mission field where Rev. John Sanders works so faithfully.

Tuesday, October 5, 1897.-Rainy day; did not get up until seven o'elock; had brenkfast at eight. Around camp all day, cooking, mending, ete. I consulted the Indians about the country on all hranches of the Doose River. Jake Mickewash, who has travelled with several explorers and has been up and down all the rivers; James Wimstegoshe, who has traversed all the main rivers; both of these men have also been in the interior country between the river stretches, and have been around Jmmes Bay east, south and west; Simon Too-she-may and Pierre Kawmenokence, who have been active hunters and know the country well. They and the other Indians agree that the whole country on the James Bay slope, after leaving the height of land a short distance, is timbered, excepting a narrow belt of muskeg swamps some distance below the Long Portage Falls on the Missamabie and the corresponding Big Falls at the main drop of eath of the other branches of the Moose, and that the swamp country changes to dry land some distance before reaching James Bay. The Moose River has three main hranches. The largest one is the Missanabie, the west branch, into which several large rivers empty from the west. The eentre branch is the Matthoggomah, and the easterly hranch the Abittibe. The Indians inform me that the country west of the Missanabie is principally level country, through which a railway could be easily constructed, and that, the Missanabie River and its tributaries furnish immense water power at various points all the way down to the Big Falls: that the middle and east branches of the Moose, although not so large, furnish abundant water power, and that the country along these branches is more broken than along the Missambie and westerly therefrom, although all is well timbered vith spruce and pophr of tine quadity, some pine, tamarac, cedar, birch, balsam, etc. The soil on all branches, more particularly the west branch, is good soil for farming.

I noticed that a greater portion of the way down the river the soil is clay, and with favourable climate would be very productive.

The foregoing notes as to land nud timber are taken from my diary for October 5. I will, while in this connection give some of my own ideas, and then refer to reports of E. B. Borron, Esy

## Soll, Timber, Minerals.

From Missambie to New Brunswick Honse (fifty miles by water) the country is considerably broken, nlthough the hills are not very ligh. The timber is small, and some portions of it have heen destroyed by tire. I would suppose there is more rock than tillable hand along that part of our journey.

At New Brunswick House the soil is clay. I am intormed that they grow hay, oats and potatoes, but have not tried wheat. The pasture was very fine when we were last there, October $1: 3$ th, and the cattle in the pasture field were in good condition for beef. I also noticed that at Old Brunswick Post (now :bbandoned), some forty miles further down the river, that the grases were luxuriant. The country lying ulong the river helow Lake Missanabie down to the point we reached is principally a level country, elay soil. There are occasionally rough rocky ridges in the vicinity of falls or rapids in the river, and at some of these, points the rock formation is similar to that along the Michipocoten, and no doubt mineral hearing

The timber along the river is poplar, whitewood, spruce, small pine, tamarac, cedar, birch, balsam, and some ash and other varieties.

I measured a number of spruce trees and found the circumference four feet from the ground to be in many instances from five to eight fect. The poplar of two varieties or poplar and whitewood were nearly as large and very tall and straight. The level hands are more heavily timbered than the broken portions, although there is more small pine on the ridges. Some burnings have destroyed portions of the timber, but not to any very considerable extent so far as I could learn.

## E. B. Borion's Report.

I wish to refer to E. B. Borron's report of 1885 (note 1) sessional papers No. 1, pages 62 and 63.

He expresses the opinion that a tract of dry and fertile land extends across the territory from east to west, not less than 400 miles long and 50 miles wide, comprising 20,000 square miles or $12,800,000$ acres. Making every reasonahle deduction for lakes, marshes, swamps, muskegs, and manable land, a very large quantity is fit for settlement, the elimate and soil favourable to a mixed system of husbandry: stock raising and dairy farming will be the most successful. On page 46, he expresses the opinion that there is a larger area of arable land along the Missanabie River than on any other, the Kenogami excepted (note 2). On the same page he mentions havmg seen ehn trees and black ash at Old Brunswiek, and on page 4 , he st." having seen spruce trees four to eight feet in circumference. It is onls uir $u$ say however, that he considers the belt of good sizeable trees of my kind as , ned to the immediate banks of the rivers and streans.

## Uhina Clay and Fine Sand.

On page 64, Mr. Borron gives an account of an inexhaustable supply of chima clay and tine sand below Coal River on the Missamabie, "and adds should this clay prove, as I believe it will prove, suitable for the manufacture of china associated as it is with the finest of sand for glass making, and with beds of lignite conl and peat, this can hardly fail, 1 think, to be a point where manufactures of pottery and glass will ultimately he established."

For want of time 1 ann not now able to give much information as to the character and prospect, of future trade, between Hudsom's Bay and the main lines of railway passing through the Provinee, the extent of trade between points mentioned, source of supply in the Hudson's Bay territory, the quantity, value, ete.

However as the report of the Company's Chief Engineer is attached as an appendix to this report, and as he has gone mother fully into these matters, I scarcely deem it necessiny for me to deal in any sort of detail with these questions at present, but could if desired make an extendel report later on. In referring to the chief enginecr's report hereto attuched, I would eall attention in the first place to the first tive pages denling with the sen products. (I had intended to make ure of some of the facts set forth, and of reports from other sources to show the extent and wealth of the north sea fisheries).

Note 1. Mr. Borron had examined the comitry previonsly in 1879 and in 1880.
Note 2. The Kenognmi is a branch of the great Albany River westerly from the Missamabie, and descrihed by Professon Bell as flowing through a fertile region.

The following pages up to the end of page 9 dealing with the character and prospects of future trade, opens up a field of almost boundless possibilities for Ontario as a commercial centre to the regions lying beyond this northern sea. From pages 10 to 16 he deals with the question of government aid, and comparison with other proposed routes.

From page 16 to 23 Provincial benefits possible. Landed interests and commercial interests.

## Maps.

I would call attention to the map following page 20 , showing the relative size of Europe and the country lying west of Hudson's Bay, also the immense extent of country which must become commercially tributary to Canada's great sea, as stated on page 20 . I also call attention to the three other maps which accompany these reports, one showing the proposed line of the Sault Ste Marie and Hudson's Bay milway from the most northerly point on the Canadian Pacitic near Missanabie to the mouth of Coal River 122 miles, and froni Coal River to Moose Factory 114 miles, in all only 236 miles in a direet line from the C.P.R. to James Bay.

Another map showing the Provinces of Ontario and Manitoba, indieating the shortest and most central railway route from these two provinces to the sea. Anothor map showing the whole "Harvey Ronte" reaching away into the north westerly portions of the Dominion.

## Lieutenant Gombon.

1 will quote from Lientenant Gordon's reports, that for 50 years Moose River has been open for sailing vessels in May, and once on the first of May. It closes in November once on the 9 th of December. Steamers could navigate much longer than sailing vessels.

## Professor Belh.

Professor Bell testitied before Dominion Parliament Committee in 1883 that Hudson's Bay is open the year round, open water can be seen from the beach at all seasons. He was informed that on the eastern shore the sea washed against the rock coast all winter. Fishing can be prosecuted earlier and longer in Hudson's Bay than in the largest lakes of the St. Lawrence Basin.

Other explorers vith whom I have talked confirm the reports so far as herein set forth.

I do not deem it neeessary for me to extend this report nt present. but can do so later on if desired. A full report of the mineral wealth of the Hudson's Bay country including the many islands would be a volume alonost in itself,

Although the Hudson's Bay is open all the year, the entrance to the straits is blocked by ice coming down from the north, so that navigation between the Bay and the Atlantic Ocean is only practicable about four or five months in the year from August to December. But this would be the time of the year when a large portion of the Manitoba grain could be shipped by way of Moose Factory to Europe, as may be seen by consulting the map. This I consider an important matter. The Moose River country offers almost unparallelled opportunities for the manufacture of pulp. The Province of Quebec is probably the only other known country where this industry could be carried on extensively under similar advantages.

It seems to me a strange condition of things that a people so progressive as we are in Ontario, having for a portion of our northern boundary one of the greatest inland seas in the world, the sea and its surroundings possessing the greatest attractions for commercial enterprise, should be lacking of any means of communication between our commercial centres and this great field of wealth. I am not prepared to say to what extent the Govermment should assist in the construction of a railway, but I am sure it would be greatly to the advantage of the Dominion, and more particularly to this Province, and especially for the city of Toronto the natural commercial centre, if railway commanication were etsablished at an early day. It would be the means of opening up a country hitherto shrouded in a very considerable degree of darkness and enable nas to obtain full and reliable information as to its resources. It would inangmate a direct trade between the merchants and mamufacturers of Ontario and Hudson's Bay and extend to regions beyond. It would open up for settlement the fertile belt north of the height of land. It would develop and make available the mineral and timber resourees of an extensive country. I believe that the immense ter ritory lying between Temiseamingue and Abbittibe, westerly and northerly to the great Albany River is of sufficient importance to this Province in land, timber and mineral wealth, to warrant the construction of several lines of railway for the purpose of developing these resources.

In my judgment the Sanlt Ste. Marie and Hudson's Bay route is more practical than any other route yet proposed, for the purpose of establishing direct communication with Hudsons bay at an carly day and at a very limited cost, while at the same time it would pass through a larger area of arable land and be more nearly in the centre of this great but undeveloped region.

Respectfully submitted.

Lynedoch, Ont.,
December 27 th, 1897 .
progressive as ry one of the possessing the of any means ield of wealth. Id assist in the advantage of ly for the city on were etsabuntry hitherto to obtain full a direct trade son's Bay and tile belt north c mineral and rense ter ritory ly to the great id, timber and ilway for the
more practical ng direct comced cost, while 1 and be more






NOTE-DISTANCES: Missanabie Junction to tlde water at Moose River-air line-28 Winnipeg. via C.P.R., 747 miles (this may be reduced about go miles, by "cut of England, $3,0 \mathrm{go}$ mites, being a few miles leas than from Kiverpool to New York by 1 TRAFFIC-No considerable export trafic from the fisberies of Hudann's Bay ca railway line in that disection can prove profitable. The Misanabie route alonef great Canadian sea.

er-air line-ass miles, located route estimated 240 miles. From Junction to Sault Ste. Marie, located line estimated 160 milea. To Heron Bay, Lake Superior, via C.P.Rn, 228 miles. To les, by "cut offs" betreen Savanne and Nipigon and elsewhere). To Montreal, via C.P.R., 675 miles. To Ottawa, 555 miles. To Toronto, 537 miles. From Moose River to Liverpool, New York by usual steamer route. The Missanabje route to Hudson's Bay from the C. P. R. is, at least, 150 miles lesr than by located lines projected from the C. P. R. at Sudbury or North Bay. Iudmon's Bay can be permenentiy esteblished over any route which does not reach the main line of waterway tranait on the great lakes west of the Straits of Machinac. Without this traficic no ie route slone fulfils theme conditions requisite to financial atccess, and is, therefore, entitled to the first attention and aid from the Government as the most feasitio route in all respucts to the

$4$



C. P. R. Station, Missanabie, Ont.


Missanabie, Ont.



Canoe cised for conveying Expedition.


Divide Between St. Lawrence and Hudson Basins.



Going nown first Rapids below Brevswick Post.


Albany Rapids on Moose River.


On the Moone River.


Portage obstructed by Timber "Wind Fall.'


Conitring; Falle, Monse River.


Guides polint; canoe up Albany Rapins, Moose River.
$\square$


Sounding Fally on Moose River.


On the Moose River.


Cami on Lone Portatie.


Chasm on Moose River, Long Portage.


North End of Long Portage.


Moose River, ${ }^{\text {below Lona Portaqe. }}$

# SUPPLEMENTARY REPORT 

BY CIIARLES T. HARVEV, ESQ., C.E.

## 34 Victoria Street, <br> Toronto, Nov. 30th. 1897.

W. A. Charlton, Estg., M I'P., Specinl Commissioner, Etc., Lymuloch, Ont

Dear Sir,-Your communication of the 20th of November came duly to hand, and I beg to say in reply that I shall endeavor to respond to the requcst therein contained by presenting such facts as have come to my knowledge hearing upon the subject referred to.

To consider the questions in the order in which they apperr in your communication, namely:

First.-"The character and prospechs of tature trade befoceen Hudsons Bryy sud the main line of railways passing through the Province."

The traffic thus designated should be divided into four classes.

1. That created by conveying the products of the Hadson Bay region southward to, or through, Ontario.
2. That of beinging merchandise and supplies northward from, or through. Ontario for consumption in Hudson Bay industries.
3. That coming from beyoul Huclson Bay and by utilizing its waterway passing to or through Ontario.
4. That passing to or through Ontario vice the waterway of Hudsons Bay to regions beyond.

The first class mentioned must primarily result from the sea fisheries. The whale fisheries heretofore exclusively carried on by New England will be transferred to Ontario, and the whaling rendezvous at Marble Island will be abandoned because steamers wintering at Moose River can reach the same ground several weeks earlicr.

The most experienced and suceessful whaling captain formerly in the trade who has spent seventeen years at Marble Island or in "Roe's Welcome" Straits, estimates that the profits of the trade if prosecuted from a railway teminal in Ontario would be $\$ 250,040$ a year. Other masters of whaling vessels, one of whom has his name appended to one of the principal strats in the Bay, corroborates this view. The Dominion Govermment, when the new route is avalable, can with gieat advantages intervene and regulate the annual eatch, so that the whaling industry would be increased from year to year and these valnable mammals protected from extermination.

The "right" whales, which are worth from $\$ 10,000$ to $\$ 20,000$ each, pass from Hudson's Bay by the inland channels to the Gulf of Bothnia, and thence to the Aretic Ocean, and vice versa. One of my informants captured tive of them in Hudson's Bay in a single season, and estimated that he saw 150 passing north, through the whaling grounds which they frequent but for a few weeks in each spring.

For further data rehang to this industry reforence can be had to the lieport of the Dominion Govermment's expedition to Hulsons Buy muder Lient. Gordon iu 1886, pages (60-1-2.3.

Another sea industry which will concentrate at the most sonthern railway terminal on James' Bay is sahon tishing. Salmon abomm in all the waters flowing into the sea in that region. The rivers emptying into Ungava Bay are especially prolitic in sahoon. Their home also axtembs to all the great rivers emptying on the cast coust of the northern sea.

Taking all of this sahon-hereding territory into account it is safe to say that it equals in extont and probably in profuctiveness that of British Columbia, where the exports of samon have risen from 2 mo in 1850 to mannal cash value at the fishraies of over four millions of dollars

The estimate that one million of dollars would soon, after railway facilities reached these shores, be pail ont munnlly at Ontario's seaport for salmon alone is undoubtedly a sale one.

That other fisheries would mdd to this ineome is eymally certain. The Globe of the 13th instant contains a report of an interview with the distinguished scientist, Dr. Robert Bell, who has explored that region more than any other living man, and in which the following ocears:-
"Speaking ol" the fishes of those waters Dr. Bell said that about thirty species "were already known to ocem in Hudson Strait or Bay or in the waters falling "into them. 'They inchude the cod, the common sahnon. Hearne's sahmon, sea " trout, speeklel and grey trout, halibut, the large white fish, herring white-tish, "eapeling (the food of the eod) a species of mel, a fish like the whiting, jackfish, "pickerel, pike pereh aid others. Back's grayling, the most beantiful of fishes, " is common in some of the streams on the western side of the Bay. One or two "trials for cod in deep water in one part of Hudson Bay did not prove mything. "Dr. Bell had seen fair-sized cod eanght near Fort George in Janes' Bay."

There is another fishery resomree which has never as yet been brought to public notice. There being no obstruction to the passage of tish from the Aretic Ocem to Great Slave Lake, the latter in the spring season is swaming with a distinct species of salmon known by the Indian mome of leomu, the supply of which is practically inexhanstible, to say nothing of other food fishes which abound in those waters.

When the short railway portage to comect the same with Hulsons Bay via Chestertield Inlet is completed, the cheapness of conveyance by the nearly all water route will inevitably bring these food products to Ontario's seaport for a market, and will render it one of the greatest, if not the most important centre for the distribution of fishing values on this continent.

The customers for such products are at present fomm mamly in the United States, and the stremms of money which must be returned to Ontario for these exports will rapidy reach to enormous amounts, from the fact that there are about thirty millions of prople living in a zone which can receive sea food from Ontario's sea const when it has adequate railway facilities to supply the demand, cheaper and quieker than from any other source. The commerce thus established will be as expansive and reliable as that in breadstutlis.

The commercial laws which will govern this trathe will be noticed under another caption.

Next in importance are the mining resources of Hudsons Bay, of these Dr. Bell said in the interview just quoted that nearly all the economic minerals

## cilities

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## e Globe

 guished $y$ otherspecies falling non, sea ite-fish, mek fish, f fishes, or two ything.
maght to e Aretic with a pply of s which

Bay via carly all rt for a at centre for these here are rod from demand, ablished ed under these 1)r. minerals
existed along the shomes of Hudsons Bay. The predominating mineral was iron ore, which was to be fomm in vast deposits in various localities contiguons to the sea.

The question of that commercial value, of comse, depends chiefly upon the cost of their trmasit to a eommereial market, ame these eonditions camot be satisfactorily ascertaned motil a milway to those shows menders further investigation upon a practical hanio possible.

## Forestry Pronucis.

A thind some of tathic axists in the pronlucts of the forests. North of the Camadian Pacitic Railwy the timber is of medinn growth, of which my observation leads me to cstimati" that tifty per cent. is pophaf two loading varictios, twenty-five per cent, of spruer aml twontr-five ber cent tamamek, white esdar and other varioties of little value.

The establishnme of pulp mills at the water powers along the river, will, no donht, follow the ment of railway commomication throngh the valley and afford a means of utilizing the pulp wools so abmedant in that region.

To what extent agrienltural development will follow is not certain. In places where clearings liase been male, as at the abandoned Hudsons Bay Company landing opposite Brouswick Lake, mutritions cattle grasses grow luxmiantly and give promise of a dewolopment of dairy prohnets when cheap aceess to that region is obtainable.

The section of the route located sonth from the Canadian Pacific Railway to Sault Ste. Marie I found to be, so far as examined, a district with quitedissimilar characteristics, especially for one hundred miles north of the St. Mary's river, which I visited in company with the then president of the company who traversed its entire distance to the (: P. R.

These farming lands are as a rule equal to any in Ontario. They are mainly covered with a heavy growth of hard wood timber, comprising maple and beach to the extent of fully sixty per cent. Twenty per cent additional is in soft woods, as cedar, balsam and hemock, while the remainder is spruce interspersed with Norway pine and white pine. The gromed has a deep rich soil which ran sustain a large farming population.

Where farms have been established under intelligent management the yield in cereals and in root crops is phemominal. Timothy, or herd grass, is found above the height of a full sized man.

The best farms are as yet located near the line of water communication, as at Goulais Bay, where is clamed to be the most peotitable cranberry farm in Ontario.

A very intelligent farmer residing there informed me that after prospecting through the northern States from Michigan to Montana he had selected a farm near the Goulais River, and intended to make that his futmer home, having already eleared up enough to give him a satisfactory support.

The building of a milway from Sult Ste. Marie to the U. P. R. will open a larger aren of the farming land than my other ronte of the same length in northern Ontario, and its comnection with the section of railway to the great sea will create such a reliable market for farm produce to supply the fishing industries, that the settlement of the present wilderness will
be rapid amd milway traftie correspondingly inereased, pomided the former can
 pust as remoeral.

The basin of Hudson's Bay can all be made tributary to Ontario when it cen offer the cheapest milway comection with its mavighb waters. This it can do by the Moose River valley route to the milwny system ol Camda at Missamabie, und with the groat lake waterway at Smalt Ste: Marie. The smme result will follow in respert to the vast Mackenzie river basin if ansy transit can be established betwron Chestertield Inket and Slave Lake. The bost reliable information as to the mentre of this mulertaking is furnished ly the wrell known engineer, Mr. J. W. Tyrrell. who, while in the emplog of the Dominion (iovermment during several yan's of exploration and seientific exmminations on the northern consts of Hudsons Bay, pmsed wer a portion of the "divide" between Hudsons Bay and Slave Lake, amal is the only engineer known to have made my exmmation of that vicinity.

In a lotter liom him to myself, dated September 6th, 1897, the following Nentences ocenr:
"In regard to Hudson's Bay and your propesed route via its waters to the "famous mining districts of northern C'anadn permit me to sny that I have spent "three seasons in the region in question mad have crossel the waters of the Bay " in varions directions tive times.
*The northwest arm of Hudsons Bay, known as Chestertield is a deep fïord, " extending. for abont two hundred miles to the westward into the interior of the "country. For a further distance of seventy miles Baker Lake still furnishes a "chamel for leep sea mavation, whilst tlowing into this Lake from the west"ward there is a harge stacm called the 'Yeloo River, mivigable for a long dis"tance by river bats.
"From the head of Baker lake westerly to the mavigable waters of the "Great Slave iake system the distance is only about one humbred and sixty miles, "rund so far as I conld see in passing through the district, no musual difficulties " wontl be met with in the construction of a railroad.
"At one phace where a harge river joins the Telzo from the westward great " grantities of trift wood were found, much of it being of large dimensions, prov"ing the existence of a forest district upon this branch not far distant. The "timber of this forest mast be of the greatest value in constructing a railway "across the "divide.'"

This warrants the conclusion that an casy and short railway connection with those waters cm be rendily luilt at a moderate cost. The significance of this to the commereial and industrial interests of Ontario is too vast to be casily grasped.

It means that the grain, cattle, lumber and minerals cast of the Rocky Mountains and north of latitude 50, as far east as the 80th meridian of longitude will seek an eastern market through Hudsons Bay, of which Ontario can possess the commercial centre.

It also renders it certain that merchandise can be tamsported from Ontario to the greater part of that region cheaper than from the Pacitic coast, which will largely rule out competition from the United States, notwithstanding the great preparations heing made by the latter to secure the same.

To elaborate the details of this result would require too much space, but the following extracts from a communication published in the Toronto "Globe " may be quoted.
" To the Editor of the Globe:
"Sir,-I regard the communications in your list Saturiay's issue discussing the means of aceess to the Klondike gold fields as containing statements of the utmost moment to the business interests of Toronto, and only wish that they were made more conspicuous and placed in juxtaposition for easy reference by your readers and were all accompanied by a map indicating their geographical importance clearly and fully.
"The first is a statement on page 5 of the relative distance from 'Toronto to the Klondike gold regions by two roates, one by way of the C. P. R. to Edmonton, and thence to the Athabasea River and via. that strean and its outflow to the mouth of the Mackenzie River; the other between the same last-mentioned point and our city vin the new proposed route to the Ontario sea coast, and thence by steamer in Hudsons Bay to the northwestern extremity of tidewater in Chesterfield Inlet and with a portage railway to deep water in Great Slave Lake whence steamers can proceed to the Mackenzie River and follow it to the sea without any break in an ample chnnnel all the way.
"The comparison shows that the Athabasca River route is 600 miles longer from Toronto, and has 2,492 miles of railway transit, 551 miles of river transit, and 250 miles of deep water lake transit with six trans-shipmeats, against 970 miles of railway transit and 1,700 miles of deep sea trausit " who river navigation, and but three trans-shipments by the Ontario sea coast route.
"The conclusion is evidently well founded that passengers can be transported by the Ontario line in one-third less time and cost, and freight at two-thirds less rate between the same points.

This is a revelation of Toronto's vantage ground, rendering a vast and rich territory commercially tributory by the new route, which may be eonsidered one of the most important announcements yet made in its history.
Toronto, August 10 .
J. W. Langmuir.

The area of the territory north of latitude 50 to be thus made tributary to Ontario as will be seen by the accompanying diagram is larger than all of Europe excluding Russia, and exceeds that of the continent of Australia.

The report of the Senate Comınission published by the Dominion Government in $18 \times 8$, contains abundant evidence that the natural industrial resources of northwest Canada are varied and immense, and only wait the advent of a resident population to give them immediate commercial importance. That official statement of these conditions is the best possible answer to paragraphs three and four of the points upon which information is desired.

Passing on to the next point on which you desire information, nanely :
As to the extent to which Government aid is solicited for the aforesaid Com-pany.-I can only refer to a statement prepared by the directors the present year, in which it is proposed that for the portion of ralway in Ontario the Province grant ten sections of land and $\$ 3,000$ in mouey per mile. The Dominion has $\$ 7,500$ in money and twenty sections of land per mile already authorized as a bonus to the first railway reaching Hudson's Bay. The portage railway, further north and west will, of course, he solely aided by the Dominion.

As to the next statement you suggest, namely :-
A compurison with other propnsed routes to Hudson's Bay us to distance; estimated cost, ind competitive trafic, mention will be briefly made of the following facts ;-

The most eastern ronte proposed is an extension of the Lake St. John Railwhy from Quebec. The distance in an air line is stated by Mr. Sullivan, Engineer and haspector of surveys of that l'rovince, to be 372 miles. Allowing fifteen per cent. for eurves, ahout 430 miles should be estimated as the netual distanee. This added to the existing 191 miles wonld make the distance to a eommercial outlet $62!$ miles.

The totnl otheial retum show the cost of the portion alreaty built to have been over forty-eight thousmad dollars per mile, including fifty-one mikes of brach lines. For the main line upto 1695 , the Dominion Goverment had paid a bonus of $\$ 1,002,000$, or nhont $\$ 5,200$ per mile : the Provinee of Quebee, $\$ 2,090500$, or over $\$ 10,900$ por mile, and the City of Quehec, $\$ 462,000$, or nearly $\$ 2,500$ per mile, not counting brmehes. The aggrenate of Government aid is therefore ahout $\$ 18,600$ per mile of main line. At this rate it would cost to extemd the same to Hudsons Bay $\$ 20,(640,000$, of which $\$ 7.998,000$ would be the proportion of Government subsidies.

The greographicat direction of this route will evidently remler exportation of fishery products over it nuprofitable under any circumstances. Hence its asefulness as an avenue to Hudsons Bay would be of littleacomot, and its investment qualities would remain as poor as ever. (See note).

The next western ronte, heretofore promoted, is that from North Bay, on the C. P. R., to Moose Factory. for which a eorporation was organized, and its prospectus published in 1884, a copy of which, with map attaehed, is now before me.

The line as shown on said map, is 375 miles long, with the west end of Lake Abbitihi as a central point. 'T, this should be added fitteen per cent. for curves, which would make the actual construction, distance 430 miles, and from Poronto to Moose Factory, by this route, 654 miles.

Recently mother charter has been obtained for a route from sudbury to Lake Abbitibi, and thence to Moose Factory, and a consolidation of the ownership of both interests is understood to have taken place.

The features of each are essentially the same, except that the more westenly route is reported is traversing some valunble pineries near the southern end, but this is probably more than connterbalanced by having its line projected over a very rough country where no main watercourse can be followed (see note) with many interfering lakes to cause a serious lengthening of its line, which will probably not be less than the other, and may be considerably more

For purposes of comparison both of these routes may be considered as essentially alike, except that the Sudbury route will with present comection add seventy-nine miles to the distance vin the other to Toronto.

There remains but one more projected Hudsons Bay route to he considered, namely, that from Winnipeg northward to Fort Churchill (that to York Factory near the mouth of the Nelson having heen abandoned becanse of the impossibility. of obtaining a harbor there).

This ronte will be about 800 miles long when constructed. For the first 300 miles it will pass between competing lake waterways, which will be cheaper

[^0]St. Johan RailSullivan, Eugillowing fiftern ectual distaner. o a ecommercial
ly built to have miles of branch id paid a bonus , $82,090,500$ or arly $\$ 2,500$ per therefore about and the same to metion of Gov-

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North Bay, on anized, and its ached, is now
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or the tirst 300 fill be cheaper
,vermment. (See net of $\$ 6,1,75,75$,
between the dis-
 large rivers to aross, ame timally reach a purt wor 600 milow morth of Moose Factomy, with all the adverse elimanie comblitime whel that implies. 'To nid this the
 mile, and hater on a mali boms of ahout $\$ 10,000$ pro mile, but the progect is still in abeyanee, with stupembons ditheulties comfonting it.
 mot on lines to athord export lineilities for the main fishery industry of the Hadsoms Bay region, hence they camot prowe pying investments, or present strong chames for govermment aid.

On the sther ham, the Moose River route from Hudsoms Bay is the shorten. and ensiest one to Sanlt Ste Marie, the greatest and chempest transportation centre on this Contiment, if not in the womd. Freight has ruled there the past senson at twenty eents $\mathrm{p}_{\mathrm{w}} \mathrm{F}$ tom "up " for a 1,000 miles carringe, and from sixty to "ighty cent, " down."

The expert trade of Hudsons Bay mont fum fixed commereial laws serk its main outlet ther. It is rasy to demonstrate that a ton of fish bomel for the lake ports of the Inited States would be worth less at Toronte than it would be at Hadsoms Bay with an option (1) ship via a direct line to the "Soo," In the mattor of shipjing froight and passengers from Toronto to Hudsons Bay and bevond, the (: P. R. conlil aftom to join in offering yuicker time and lower rates to Monse Factory via Mismabie than eond bre atforded be a direct route if built betwen the two phaces.

A remarkaho featme of the Missambie line is that but 122 miles of air line, or admen tifteen per cent. fon emes, $14 \%$ milen of actual line only, is required, to extend the railway system of C'mada to memgable waters leading into Hudsons Bay. Ahout 100 aditiomal miles over (. P. R. to Heron Bay will eomplete a portage railway hetween a waterway of the great sea and of the great laken. or 250 miles in all, with qu $^{\prime \prime}$ provent. of the same alveady built.

## From These Facts the Following Comparison is Compleid.

## Distunces from nuwiguble urters connecting with Hudsons Buy to taisting Railurays.

From Fort ('hurchill th U. P. R. at Wimnipeg, Manitobat. . . . 750 Miles.
From Rupert River to L. St. I., or Quelne R. R., at L. St.
.John Quelrec. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 387
From Moose River to (. P. R. and ( E . T. at North Bay, (ntario 385
From " " " ". "Sudbury " 380
From " " " " Missanabic " 122
(From tide water . . . . . . . . . . . . to Missambie $2: 36$ miles.)
In the foregoing table no allowance is mate for curves in the severmi railway lines to avoid lakes, rivers, deep enttings amd embankments. These are estimated at fifteen per cent. on all the routes except the Missanabie, which following one river valley where no lakes or mountain ranges are to be encountered will not exceed five per cent. prohably:
 limes will to as follows:-

$$
\begin{aligned}
& \text { Fort Churehill to Wimipeg ...... . . .......... vitie Miln. } \\
& \text { Rupert River to Lake St. Joha . . . . . . . . . ............. . trit } \\
& \text { Monser River to North Bay ............................ . . . . } 4 \text { tis } \\
& \text { Monse River to siulbury . . . . . . . . . . . . . . . . . . . . . . } 4: 37 \\
& \text { Monse River to Missmathir ............. . . . ......... I }
\end{aligned}
$$

 Connectin!g with Hulsum's Buy.

V'ia Lakr St. John Ry, to Queher, fiel miles.

Via Sudbury to Algoma, $\mathbf{2} 2.5$ miles: 'Toronto, $7: 3 \mathrm{~K}$ miles.

Via Wimneng to Fort William. 1.226 miles.
These tables demonstrate ahsolntely the suprionty of the Missianahic line to Hadsonis Buy.

Resperting the quary $n$, to subsidics heretotore given hy somombent, whether Dominion, or Provincial, or monicipal in aid of proposed railway lines which may he utilized in reaching Hulson's Bay the recods show:-

That to the Lake St. Jom mihway sth,000 per mile in money has heon paid as heretofore stated. 'To the North Bay route $8: 3,000$ per mile has herol authorized as provincial aid, hut wot emond.

To the railway hetwern North Bay and damomhenst $\$ 12000$ per mile in money was pmid hy the Dominion gowmment.

For the Port Arthur and Rany Lake railway $\$ 3,000$ per mile from Ontario and 86,400 per mile in money from the Dominion were voted the present pats:

The Camalian Pacific malway owes its existence to liberal govermmental aid, which the ofticial returns show to have been s50,96t,7it.0t in money. Nas $26,772,800$ acres of land along the route throngh the "grain belt" west of Ontario, the products of which are now being exported in emomons ghantities.

If these amomets are divided by the length of the main line of malway from Montreal to Vancomer, 2,906 miles, the average appents at owe spabot in mones, and 9,200 acres of land per mile.

The present year a Dominion grant of sil,000 por mile in moner and a grant by the Province of British Columkia of abont 20.000 acres of land per mile has heen bestowed upon the "Crow's Nest Pass" extension of this milway system.

These precedents are submitted as waranting the expectation of aid, upon the scale mentioned, to this short liue to Hudson's Bay:

## Most l'rominent Promimial Benefits lowsible.

There are two most prominent interests of the Province of Ontario which can be promoterl by the building of the proposed short milway comection with Hudson's Bny to an immense extent not otherwise possible.

One of these is its Landed Interests and the other its Commercial Interests.

## Provincial Lamd Interests.

It is well known that in 1876 the province was a warded a clear title to the oretion of its prent territory lying morth of the "haight of lame" previonsly flatmed by the Dominion and covering an are of abot ninety millions of acres ai land, and that during the seore of years since the award no materinl increase "f value or of population has wemered in the anmexed listrict.

If a proposition enn be substantiated that less than one-tenth of that area. inchuling a section of similar wilderness aljoining on the southern slope of the "hoight of land" can be so manged as to inerense the marketable value of that wo-tunth of the Provineial Crown Lands ten millions of dollars within ten yems womld the same be appreved hy public sentiment in the province irrespection of pulitical or local aftiliations!

I test is suggested as practienble on the following lines of procedure:-
Let the Province offer asa premium to the Corporation which will diost buila a milway thongh the amexed district from the Camadian Pacitic milway to Hudsonis Bay on the shortest and most practicable lime every alternate township in the lat and end tiers or equivalent guantity of hand on each side of such line: resoving vecified pine timber and mineral rights therein, with the privilege of suhsergently contmung such line manly through like wihberness lams for a similar lam allotment pro mon per mile in the unsmeyed pertion of the districts of Mroma or Xipissing to the great lake waterway. lix the pried of Crown Lamb in the townships moingeg the milway line at $\$ 2.00$ per acre, and of those in the townships in the next two tiers at $\$ 1.50$ mad $\$ 1.00$ per aere respectively, withorawing free grant privileges within the there tiers of townships next to the railway while continuing them on those beyond that limit.

When each township is made subject to sale, have the choice of location "xareised by the highest hidder. After the railway has been built for five years the company to be refuired to sell five per cent. of its lands not necessary for railway puposes ench year, when such per centage is to becone subject to taxation.

Appling this system to the route covered by the charter of the Missamabie Route railway, mad estimating the total distance at 400 miles, mmely, 250 miles north of the C. P. K. and 150 miles sonth of the same, the reserved Crown Lands in the first, or nearest, tier of townships would be $66_{3}^{2}$ townships, or $1,536,000$ aces, areraging within three miles of a railway line valued at $\$ 2.00$ per aere, amounting to $\$ 3,072,000$ and in the next tier $66_{5}^{2}$ townships, or $1,536,-$ OOO neres, averaging within nine miles of the railway, at Sl.SO per acre, amonnting to $82,304,000$, and in the third tier 13:3? townships, of $3,072,000$ aeres, aremging within tifteen miles of the railway, at $\$ 1.00$, amounting to $83,072,000$, making a total of $\$ 8,448,000$ for the same lands that are now offered at tilty cents per acre and also as free grants to actrol settlers, without attracting the latter, and much less purchasers to any eonsi rable extent. But to the above total should be added the sale of timber and mining rights at the estimated werage of $\$ 200,000$ n year for ten years, or $\$ 2,000,000$. which, addel to the hand values, presents a total of $\$ 10,448,000$ to be derived from $9,216,0$ t) 0 acres of land,
tario which wetion with including one-third, or $3,072,000$ acres, granted as a premian for constructing and operating the railway.

It is casy to prove that this is m moder estimate of the abonatages to neerne to the provincial landed interests as a whole from the alvent of the proposed railway.

The hemetits are only estimated for a width of threr townships on emch side, while the same will actally extend for mavernge of over filty miles without indeding the som comst and river vicimge whid it will romber aressible.
'The: Provincial govermment will tind the mihany empital m most energetic ugeney in promoting industrial interests of all kimds which can la made tributary to the milway trathe, mad thas hasten the development of the provine masmeres now bidden in a vast widderness. The perevion meguring a lixad abmal dimime tion of its haded hodinge will trmimate ther sman within an average of fifteren reare and dissipate atl firas of a "hand monopoly"

## Outarios Commereiol Intriensin.

If the propesition shomld tw submitted to the hasiness men of Ontario that poon an arramement with the Provincial gowemment for a money or eredit ndenner of mot excerding lrom tive to ten per ernt. of the protits which will pesult to the provine from the enhancement of Cown land babes as shewo in the preceding propsition, as a promimm low a sereal expediting and extemsion of the mikay facilities mad commertions remdered possihn ly extramelimary efforts at constraction progrese on the shomest ronte from the ( $\%$ P. R. to Hudmon's Bay, mendeross the "divide" from that sun to matignbla waters in the
 containing the richest and most extonsive mining regions in the wowd, as well as

 water comses conse to the the chenpest mems of transportation, and emsequently mding millions momally to the commeree of its chief cities, would there be hesitation mol eaviling about memorializing the govermment to monge for such adrances on liberal terms! This is no idle guestion. Bepond all dombt such a possibility wats upon Ontarios decision at the elose of 1897.

The acerompmying map shows how Europe can he laid ower ('imala west of Hudmon's Bay and within the watersheds of the Bay mod the two grent rivers of the north west with a wide margin of suplus space.

The dotter lines show that portion of the Dominion which must berome commercially tributary to the great sea of Cmala when snitable railway womnections are made and that the same is more that twice the area of Emrope as thus proportioned.

It is not neressary to sucure attention to this region for me to set forth facts relating to its prospective resources, hecanse as yom mee well awne, the attention of the civilized word is now fastened upon it with an intensity never equalled in the history of the homan race. Expeditions are preparing to start for its "El Dorudo's" in the coming spring from all parts of the ghobe estimated to momber liom one quarter to one thind million of men.

Thansit lines are advertising to convey them to the valleys of the Mackenzia and the Vakon vin Edmontom in the North West 'lerritories and by the various passes throngh the momatains on the Pacific const, white not a solitary passenger is hooked to gro by the Ontaio ronte which nature has prowided, and which is primarily better than any other the main portions of the mining tervitory in North Western Canda.

A few months of energetic pioneering route work will suttice to change these condition and open up commections via Ontario which would make Toronto the headquarters for the ont-fitting of parties bound to the Klondike and intermediate
whips on each miles without "sibl.
most energet ic mude tributary neial resourcas amual diminnnge of tifteron
f Ontario that mey or credit Is which will
 flld extemsion extraordinary P. R. to Howlwaters in the side of Russin,顺, as well as rost profitnhly time, or matil 1 consequently onld there li. range for such 1 doultt such a
amala west of great rivers of must becomu e milway conof Europe ns
set forth facts , the attention ver equalledin rt for its "El ted to momber
the Mackenzie by the various tary passenger , and which is g territory in
o change these ie Toronto the d intermeriate



## SKETCH

Shewing actual proportions of area of the continent of Europe, minus Russia, when duplicated in the por.
tion of Canada commercially tributary to the

mining locations, and lead miners seeking to return to the older countries with their "dust" and "nuggets" to come this way, to be followed by freighting facilities which will eoncentrate commere at Ontario's new sen port, and its govermmentul, financial, and mamfactming Cnpitol to an extent not now dreamed of by its most smyuine business men.
'The methouls to obtain this end are very simple and need mot involve a dollar of not Provincial indeltedness.

With the policy of the lame developing system above mentioned alopted, let the Govermment appopriate from its share of the inerensed marketable value of the railway ronte lands suthicient to offer the railway company a preminn of $\$ 1,000$ per mile for the route from the C.P.R. to the mavignhlo waters of the Moose River if it will open a rond between these two points so that a regular mail route can be evablished by homs conseyance thereom not later than during the month of lay mext by which mails can be takin from the enes to the stemmhoat within twenty form homs time. Ald to that the offer of a premimon of a like amome for the extension of the rad to tide water at the menth of the Moose River provided the Company will aramge with the Hudsem Bay \& Vokon Railway and Navigation (ompany (chartered by the Dominion at its last wession) to "pen a mail rond across the divide betweon the navigable waters of Hudsens Bay and Great Slave Lake vin Chestertield Inlet during the month of Jaly next hy which mail can be transported between the same within sixty hours and werkly trips made by mail stemners between the "divile " and fort Simpson on thi Mackenzie River and also between the "divide" and Moose River in Ontario. This done and 1898 will see Gntamio's commercind supremaey established orer northwestem ('analia.

It cmano le dombend that from Fort Simpson as a radial point a mail ronte will be established by the lominion Govermment on the matmal route up the Liard River, and acioss the divide of virhty miles to Troslin Lake at the head waters of the Yukon and where a junction can be made with all the Pacitic coast romtes to the Klondike, also another with the hend waters of the Polly River where the "divide" is hess tham tell miles.

And also the most important one down the Mackenzie River th the Peel River, and thence acress the fifty mile "divide" to the Poreupine branch of the Fuken and thence to the Klomlike by a woute entirely within (madian territory.

With the mails of the reontes conentrated at Fort Simpson they can be taken thenee to Toronto in nine days in 1898 with the time gradually relnced to nemly half that time in the mext yar or two.

Spaer will not permit of making comparisons with other rontes but the superiority of this will appear in a still stronger light for a winter ronte as stenmers can rom on Hulsms Bay all winter, and gool roads and malways will be progressively opened for winter use thence to Fort Simpson ns travel increases in the near future.

If the Ontario govarnment will ofter an additional premime for opening the railwisy from the ( $!$ P. R. to tille water in lses of $\$ 2,000$ per mile payable ont of sales of ('rowa hamls atong the route I have no doulth that that result will be assured and if the ereelit of the Company can be nided as to pledging its lands for construction "apital sonth of the C. P. R. that transit extension can be materially hastened.

The problem of terminal milway facilities at the month of the Moose River: will requive to be denlt with soon alter the line is opened to that point.

At present there is abont five feet of water over the bur at low tide, with a tidal rise of from right to ten leet. A preliminary survey made hy this Company before my connection with it, shows that the railway must be financed with a large reserve for harbor and dock building expenditmes, before large ocean steamers can gan suitable aceess to the milway terminus, but by carefulmanagement the coast wise steamer service can be commencel withont delay to connect with the Missamabie ronte whether operated by steamers on the lower river section, or by throngh trains.

The overshadowing importance of the subject "mbrace in this commonication will I trust be deemed as warmating its length, which is much more than I anticipated at its commencement.

Viry resuetfully yomes,
CHAS. T. HARVEY, 'hief Engineer, Sault Ste. Marice \& Hulson's Bay Railway Co, and Hudson's Bay aud Yukon Railways N Navigation (\%
P. S.- I enclose two maps which may be of servied for refermee, and with permission for their use in comection with your Report shombld yon se desir:
le, with a Company d with a cre ocean Imanage, conncet wer river
mumbica-
re than I

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o., and
sation (\%
and with lesire.



[^0]:    (Note).-The carnings of this line, as now operated, were reported to Govermment. (See Report of 1895) as $\$ 164,312.97$. Operating expenses $\$ 157,737.22$, leaving a net of $\$ 6,5,75,75$, or $\$ 27.17$ per mile for repaiss, etc., etc.
    (Note).-Vide Report of Provincial Surveyor engaged in locating the line between the districts of Algona and Nipissing for 132 miles north of the C. P. R. during 1896.

