# The Galineau Valley Railway. THE GATINEAU VALLEY AND JAMES' BAY.

The Ottawa and Gatineau Valley Railway Company, in addition to the early construction of their main line, work upon which will commence this month, have in contemplation the prosecution of an extensive exploratory survey from the Dessert River, the present ter-minus of the road, to James' Bay, the distance from Ottawa to the Bay by the Hurricanaw River route being only 450 miles, and acknowledged to be not only the most direct, but casiest of construction, whilst traversing a line of country full of valuable minerals of a highly merchantable character, and offering an inviting field for the capitalist and farmer, second to none on the continent.

Not many years since the great North Western prairies, now the marvel of the world for their wonderful fertility and extraordinary production of grain, were a *terra incognita* to the general public, and were given up in the popular imagination to howling desolation and popular imagination to howing desolation and perpetual frost. The opinion entertained of them is very generally held to day regarding the large and more southern region, compris-ing 60,000 square miles situated between James' Bay and the height of land north of Lakes Superior and Huron. Yet the constant-ly accumulating facts are likely to prove that this porthern heritare of Optario is exceeding. this northern heritage of Ontario is exceedingly valuable in lumbering and mining resources and capable of sustaining a very considerable sgricultural population. The recent geologi-cal surveys demonstrate that a most valuable mineral region lies within and beyond it, that the dense forests which cover it contain a very large amount of valuable timber, which can casily be floated down the magnificent riversseveral of them each over 300 miles in length -which traverse the region ; that the surface, unlike that of the Ottawa, Muskoka, and Algo ma districts, is almost unbroken by lakes, and and south-west of James' Bay, at some dis-tance inland, a fertile belt well adapted for agriculture exists, which, when the mineral and forest wealth of the country is being turned to account, will be an inviting field for the farmer.

## COAL AND IRON MINES.

It is exceedingly gratifying to learn from Prof. Bell's recently published report that around James' Bay and up the castern side of Hudson Bay lie great deposits of iron and coal Hudson Bay lie great deposits of iron and coal so close together that with the cheap water freights which the region may afford, the dis-trict along James' Bay may yet become another Pennsylvania. Prof. Bell, after refer-ring to the soil, climate and forests of the dis-trict, says:..." Minerals may, however, become in the future the greatest of the resources of the shores of Hudson Bay. Little direct search has yet been made for the valuable minerals of these regions. In 1875 I found a large deposit of rich ironstone on the Mattaga. large deposit of rich ironstone on the Mattagami River. In 1877 inexhaustible supplies of good manganiferous iron ore were discovered on the islands near the east main coast (that is the coast along the eastern shore of James' and Hudson Bays,) and promising quantities of galena around Richwood Gulf and also near Whale River. Traces of gold, silver, molybdenum, and copper were likewise noted on the cast main coast. Lignine was met with on the Missinaipi (a branch of the Moose), gypsum on the Moose, and petroleum-bearing limestone on the Abitibi River (another large tributary of the Moose)." Another explorer, referring to the great iron, coal and other minerals of the neighborhood of James' Bay says: "I have no hesitation in pronouncing this dis-

and iron are found along the rivers south of James' Bay, a gigantic outcropping, containing over twenty five per cent. of pure iron ore, displaying itself along the Moose, and a mag-netic island on the Abittibi rendering the surveyor's compass useless. To Ontario this immense mineral wealth is likely to yet prove an important factor in her prosperity, particularly as Moose Fort is only 500 miles from Toronto, and on the completion of the connecting link the Calendar, near connecting Calendar, near Factory Branch Lake Nipissing, a Moose Factory Branch over 200 miles long from near Nipissing or a branch only 200 miles long from near Nepigon, will, with the Pacific Railway, furnish a short route to the shores of James' Bay.

#### THE GREAT NORTHBRN FOREST.

The great forest which bounds Hudson Bay on the east and extends up the interior of East Main and Labrador to Ungava Bay and Hudson Straits, six hundred miles north of Moose Factory, attains its greatest character-istic development just south of James' Bay, which lies nearly midway between the north ern and southern limits of the peculiar trees which compose the great northern woods. Some trees, such as the Banksian pine and spruce, which along their southern limits in Central Ontario are almost valueless commercially, here become giants of the forest, and are valuable for timber. The list of trees which flourish at James' Bay or in its drainage basin includes, according to Prof. Bell, the spruce (two feet or more in diameter) the tam-arac, balsam, poplar (luxuriant) Bankeian pine, silver fir, artor vite, elm, white pine, and red pine, and of lesser importance the poplar (mountain sak poplar, mountain ash and montain maple. As James' Bay is as near to Liverpool as is Quebec, the future of the district as a lumber. ing country looks hopeful.

### WARMER THAN NORTH WEST WHEAT LAND.

Such being the great wealth of mine and forest which is likely to be developed some day, the question arises, are climatic condition. sufficiently favorable for the agriculture which will be necessary to sustain the large population which may flock to James' Bay territory Prof. Bell who has spent thirteen summers around Hudson Bay, thinks they are. Testi-mony comes from other reliable sources to similar effect: ca-ual experiments in wheat similar enect: ca'dal experiments in wheat growing have succeeded at some localities. Moose Factory, at the extreme north of the Moose drainage basin, is in latitude 51° 15, the same as the Qu'Appelle Valley, and fur-ther south than Battleford. Its winters are not colder than those of Manitoba generally, and are warmer than the Athabaska and Peace River countries. The average temperature for the year  $(30 \circ .8)$  is higher than that of many parts of the best wheat growing lands of the North-West, and less than four degrees colder than that of Winnipeg-a difference chiefly perceptible in early spring. The southern part of the James' Bay district is further South than Manitoba, and on the same latitude as districts in Quebec, where wheat and even Indistricts in Queeec, where wheat and even in-dian Corn are grown every year. The "fertile belt" of the district is a greatly undulating plain, with a sandy loam soil, and lies in the same latitude as Winnipeg. If wheat in Man-itoba is an assured success every year, it is reasonable to suppose that James' Bay district whether the property of fartile will even the same set of the with its large area of fertile soil, cannot be without agricultural value.

The scantiness of the population has pre-vented agriculture being tried. Fortunately at one point\_"Moose Fort"-but on a "low, wet clayey soil, exposed to icy winds," a careful record has been kept for several years, and it furnishes a test of climate much superior to trict the richest mineral region in the Domin-that which casual experiments in agriculture 1879.79 80-and may be taken to represent the ion, perhaps on the continent." Anthracite would afford. The figures and comparisons usual summer climate.

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given hereafter are chiefly compiled from the hree latest meteorological reports, and embrace the year 1878-7980, a sufficiently long period to exclude the possibility of such mistake regarding the general characteristics of the climate.

# WINTER AT JAMES' BAY.

The winter usually begins in the early part of November, but sometimes not until the third week. November and December are snowy months, but after New Year's, excepting in one year when January was snowy, the snow fall had not exceeded a few inches. The total snowfall is much the same as in Toronto, although a greater depth is on the ground at one time. Rain is rare in mid-win-ter although at subcome. ground at one time. Itain is rare in mid-win-ter, although not unknown. The mean tem-perature of December, January and February is 1. °3, or little more than one degree warm-er. The mean of Dungaven, in the celebrated Peace River country, is 7. °5 below zero, or nearly eight degrees colder than Moose Fac-tory. tory. In extreme temperatures Moose Fac-tory. In extreme temperatures Moose Factoy is not so cold as Winnipeg, the lowest being 45° below zero, while Winnipeg shows 47° below. Dunvegan registered 63° below zero in 1880 in 1880. As excessive tomperatures as Micose Fort knows, are recorded in the colder settled parts of Ontario.

#### THE NORTH WINDS OF SPRING.

In March occasional temperatures of 45° to 50° above zero indicate the approach of spring. In the early part of April the ground ecomes bare, but the weather is exceedingly disagreeble and variable until near the middle of May, cold winds and warm winds rapidly alternating. This is due to the fact that James' Bay being exceedingly shallow, except in the deep central portion, freezes almost over its whole width\_150 miles\_and north-ward to its junction with the deep open waters of Hudson Bay, presenting in this respect an analogy to the northern end of the Caspian The ico in spring remains and melts in Sea. the Bay, and the cold air arising from it is drawn southward by the greater heat of the Moose River basin. North winds are thus the prevalent winds during April, May and June. In this respect the immediate neighborhood of the bay resembles Cape Breton, and several other parts of the Maritime Provinces where spring is retarded to an almost similar degree by the cold winds from the icy current flowing down the coasts. In May Moose Factory is 4 degrees colder than Prince Arthur's Landing, but inland, where the cold north winds have lost their force, this month, like the rest of the spring, is warmer. Gardening at the Fort begins about the middle of May, and the last severe night frosts occur before the month is over, and temperatures of nearly 80° in the shade are sometimes reached.

#### WARMER SUMMER THAN EDINBURGH.

Summer may be said to commence with June, although the freezing point is touched about the beginning of this month in most years, as it is in the North-West, and in sever-al parts of Ontario not far from Toronto. The summers at the Fort are not so warm as fifty and a hundred miles inlond, and are cooler in and a hundred miles miond, and are could in June, July and August than at Winnipeg, and in many parts of the North-West, but warmer than at other North-Western districts, or at Edinburgh, Scotland. The following table shows the mean temper-stance at various places, and will prove interest.

ature at various places, and will prove interest ing for comparisons. The foreign stations are from Blodgett: all the Canadian stations, ox-cepting Edmonton and Fort Saskatchewan show the mean, not in one year but in three-