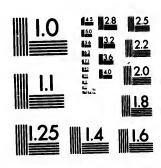


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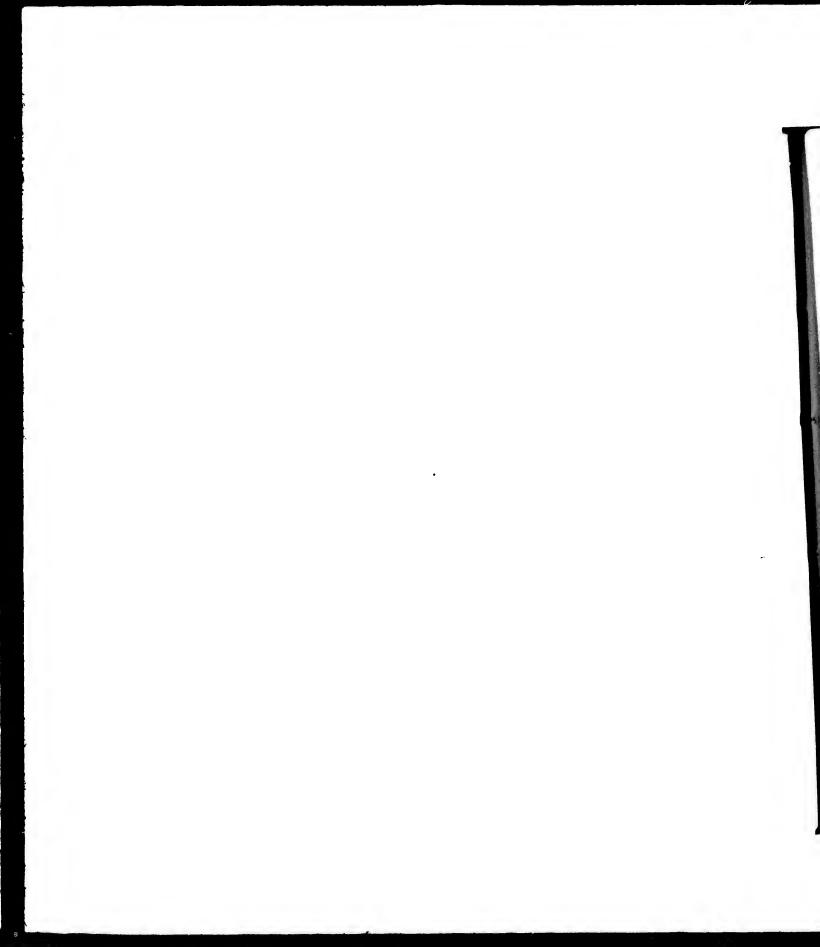
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LEGISLATURE OF MINNESOTA.

NORTHWEST BRITISH AMERICA

AND ITS RELATIONS TO

THE STATE OF MINNESOTA.

BY JAMES W. TAYLOR.

Printed as a Supplement to the Journal of the Mouse of Representatives,
Seesion of 1859-60.

ST. PAUL:
NEWSON, MOORE, FOSTER AND COMPANY, PRINTERS.
1860.

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GOVERNOR'S MESSAGE.

I have the honor to transmit herewith, for the use of the Legislature, a Report this day presented to me, upon the relations of the State of Minnesota to North-To the House of Representatives: west British America, made upon the sugestion and at the request of my prede-

The accompanying report relates to matters which are not merely a subject of cessor in office, by James W. Taylor. increasing enquiry to all, but which concern, in a great degree, the future growth and development of our State, and to which the attention of Statesmen, both of this country and of Eupland, in already considerably directed

this country and of England, is already considerably directed. I therefore recommend this report, containing valuable information upon so important a subject, to the attention of the Legislature.

EXECUTIVE OFFICE, St. Paul, March 2, 1860.

REPORT.

St. Paul, March 2, 1860,

Hon. Alexander Ramsey, Governor of Minnesota:

slature, a Report nesota to Northest of my prede. erely a subject of the future growth tatesmen, both of nation upon so im-EX. RAMSEY.

On the 18th of June 1859, I received from Hon. Heary H. Sibley, Governor of Minnesota, a communication, requesting me to obtain, in the course of a visit to the Selkirk Settlement, "reliable information relative to the physical aspects and other facts connected with the British possessions on the line of the Overland Route from Pembina via the Red River settlement and the Saskatchewan valley to Frazer's River," and to communicate the same to the Executive Department in a form suitable for submission to the Legislature.

the Executive Department in a form snitable for submission to the Legislature.

At the Selkirk Settlement upon the Red River of the North, the introduction of Gov. Sibley was duly honored by Hon. William McTavish, Governor of Assiniboia. The settlements upon the Red River, from the international boundary at Pembina to the mouth of the river in Lake Winnipeg, and upon the Assiniboin river, for a distance of sixty miles west of its junction with the Red River at Fort Garry, have nequired a civil organization, under appointments of the Hudson Bay Compay, which is officially designated as "The Colony of Assiniboia." I desire to acknowledge the uniform courtesy, and solicitude to communicate the information sought by me, not only of Governor McTavish, but of Dr. J. Bunn, John E. Harriott, esq., Thomas Sinclair, Esq., and Robert Macbeth, Esq., gendlemen holding the appointments of Legislative Conneillors and Magistrates of the colony of Assimboia.

The first Territorial Librarian of Minnesota, Chas. Cavillear, Esq., and Hon. N. W. Kittson, late Mayor of St. Paul, are now residents at St. Boniface, the seat of the Catholic Episcopate, opposite Fort Garry; and I am greatly indebted for their suggestions. The Historical collections of D. Gunn Esq., Correspondent of the Smithsonian Institute were accessible by me.

I shall have occasion, also, in the progress of this report, to produce the testimony of Bishop Tache of the Catholic Church, and Bishop Anderson and Archdeacon Hunter of the Church of England. To them and others of the Clergy of Selkirk, would express obligations for valuable information. It is unnecessary to repeat the narrative of Lord Selkirk's remarkable colonization of Red River. Of the present community of ten thousand souls, about five thousand are competent, at this moment, to assume any civil or social responsibility, which may be imposed upon them. The accumulations from the fur trade during fifty years, with few excitements or opportunities of expenditure, have secured general prosperty, with frequ

of morality and intelligence.

The people of Selkirk fully appreciate the advantages of communication

with the Mississippi River and Lake Superior through the State of Minnesota. They are auxious for the utmost facilities of trade and intercourse. The they are anxious for the tumost facilities of trade and intercourse. The navigation of the Red River by a steamboat during the summer of 1859, was universally recognized as marking a new era in their annuls. This public sentiment was pithily expressed by the remark: "In 1851, the Governor of Minnesota visited us; in 1859 comes a Steamboat, and ten years with believe Palacod". more will bring a Railroad!"

I was gratified to find that the Hudson Bay Company was no exception to the general feeling of cordiality. Governor Sibley was apprehensive, with the prospect of greatly increased intercourse by the channel of Red River, that American traders and emigrants might be received inhospitably, but no such disposition was shown: and, as to the enterprise of steam navigation, it is now understood that the Hudson Bay Company has become an active

party in its future prosecution.

The population of Selkirk, unconnected with the company, is so numerous The population of Selkirk, unconnected with the company, as o numerous and influential that all restrictions of trade have been relinquished. Most amicable relations exist between the trading post at Fort Garry, and Kittson's station at Saint Boniface. Goods are charged with an impost of four per cent, whether brought from Europe or the United States, which constitute the revenue of the colony of Assiniboin. Land can be purchased by any one

the revenue of the colony of Assiniboia. Land can be purchased by any one at seven shillings sterling per acre, with liberal credits and low interest. For the present the jurisdiction of the country is exclusively that of the Hudson Bay Company. There is a probability, however, that representative institutions will be established by an act of the current English Parliament. Letters from London were shown to me in August—particularly a communication from Professor Isbister of London, to Donald Gunn, Esq., of Longor Fort Claber inhigh stated that one of the latest official acts of Sir Lower Fort Garry—which stated that one of the latest official acts of Sir Edward Bulwer Lytton, before his retirement from the office of Colonial Edward Bulwer Lytton, before his retirement from the office of Colonial Secretary, was to draft and circulate for the consideration of members of Parliament, a bill providing for the organization of a colony, which should embrace the district extending from Lake Superior and. Winnepeg to the Rocky Mountains, and bounded north by latitude 55.9. Its passage was only prevented by the resignation of the Derby ministry, and I notice that Bishop Anderson, in a recent charge to the clergy of his diocese, expresses great confidence that Sir Edward's successor in the Colonial Office, the Duke of Newcastle, "whose attention has for many years been directed to this subject, will be prepared ere long with a comprehensive measure of some character." (1.)

The physical geography of the vast interior districts, which constitute the basin of Lake Winnipeg, will soon be as familiar as that of the territory of the United States within the same lines of longitude. The Canadlan Government has lately published the month of an application of the channels and the United States within the same lines of longitude. The Canadian Government has lately published the result of an exploration of the channels and valleys of the Rod and Assiniboin rivers. The London Geographical Society has given to the world the narratives of Captain Pallisser and his associates, who have thoroughly explored the vicinity and passes of the Rocky Mountains, between latitude 49° and 54°. Intelligent parties organized for hunting adventure or overland transit, are making constant additions to the public prowledge of Northwest America. A citizen of Minnesota. Col. nunting adventure or overland transit, are making constant additions to the public knowledge of Northwest America. A citizen of Minnesota, Col. Wm. H. Nobles, whose name is the designation of the most practicable pass of the Sierra Nevada, discovered by him in 1851; has turned his attention since the gold discovery of British Columbia, to the details of an Overland

^(1.) The question of a distinct organisation, by an act of Parliament, is the sole topic of political discussion in the Sciittik Scillements. See the file of the Nor-Wester for January, 1860, a paper published at Fore Garry. In the Appendix (A.) the subject of a Colonial organization is presented in Getail.

of Minucsota. The reourse. mer of 1859. This apoals. 851, the Govand ten years

o exception to chensive, with of Red River, itably, but no navigation, it ome an active

is so numerous nished. Most y, and Kittson's ost of four per hich constitute used by any one vinterest.

ely that of the English Parlia--particularly a Gunn, Esq., of lal acts of Sir fice of Colonial of members of y, which should innepeg to the assage was only tice that Bishop expresses great e, the Duke of I to this subject, of some charac-

h constitute the the territory of Canadlan Govthe channels and raphical Society d his associates, ie Rocky Mouns organized for additions to the Miunesota, Col. practicable pass red his attention of an Overland

i, is the sole topic of Wester for January, ibject of a Colonial

Route, by the valleys of the Red River of the North, the South Saskatchewan Route, by the valleys of the Red River of the North, the South Saskatchewan and the Kootonais Pass. An exploration conducted by him in the summer of 1859 to Fort Ellice on the western sources of the Assiniboin, was very satisfactory, and its results will be published, as soon as a report by J. W. Ham Iton, Esq., who conducted the same party of exploration from Fort Ellice through the Rocky Mountains, shall be received. (2)

Upon the general topic, suggested by Gov. Sibley, of Communications between Minnesota and Central British America, whether considered in regard to transportation from that extensive district to Lake Superior and the Misc.

to transportation from that extensive district to Lake Superior and the Miss-

to transportation from that extensive district to Lake Superior and the Mississippi river, or in regard to a Western connection with the Pacific coast, I beg leave to sumbit the following result of recent observation and enquiry.

1. The navigable capacity of the Red River of the North may be comparatively stated, as follows: Ascending the stream from Lake Winnipeg, the navigation to Pembina is equal to that of the Mississippi between Prairie du Chien and Lake Pepin; from Pembina to to the mouth of Red Lake river, the channel may be compared to the Mississippi from Red Wing to Fort Snellin; from Red Lake River to Shayenne, to the Minnesota from Ft. Saelling to Shakopee; and from Shayeane to Breckinridge, to the Minnesota from Shakopee to Fort Ridgely. The only material obstruction—sand bars near the mouth of Goose river—may be removed (so Captain E. Bell, who commanded the steamer, Anson Northup, in the summer of 1859, acres by an expenditure of one thousand dollars. The Red River is navigable above (south of) Pembina 400 miles, while the distance from the Internation above (south of) Pembina 400 miles, whiles, the the distance from the International line by river to lake Winnipeg is 175 miles.

To this add 350 miles for the navigation of the Shaycone, Red Lake river and Assiniboia, (its principal tributaries) and the river coast of the Red River Valley, accessible by steamers, will be found to exceed nine hundred dollars.

exceed nine nundred dollars.

2. Lake Winnipeg is about two hundred and fifty miles in length, but of unequal breadth. Its area cannot be less than that of Lake Erie, but is interesting on limestone, while the numerous bays of its eastern shore develope the gneiss, granite and trap rock of the primary formation. The lake is not deep, but with no shallows obstructive to navigation.

3. From a roint near the Northwestern angle of Lake Winnipeg the great

3. From a point near the Northwestern angle of Lake Winnipeg, the great navigable channel of the Saskatchewan, divided into two arms at latitude 53 and longitude 106 may be ascended by steamers to Fort Edmouth on the north branch, and to Chesterfield House or old Bow Fort on the south branch, in close proximity to the Rocky Mountains. The Rapids of the Saskatchewan, near the mouth of the river, can hardly be said to interrupt ravigation. Open loaded boats have been tracked (drawn with a rope by navigation. Open loaned coats have been tracked (drawn with a tope by non on shore) over the most violent portions of the Rapids, the respective distances being one mile and a quarter of a mile, while for descending vessels, there is no difficulty. Loaded boats run the rapids with safety at every stage of water.

4. When Central British America is fully recognized as a colony of England, its interior navigation can be greatly facilitated by canals between the channels of the Assiniboin and the South Saskatchewan, and connecting Lakes Winnipigoos and Manitoba with the Saskatchewan west of the rapids; but with the present natural advantages of the country, it is easy to perceive that steam navigation will greatly contribute to the enterprise of an overland

^(2.) See Appendix (B) Geographical Memoir of the Red River and Saskatchewan District: (C) Sir Roderick Murchison, on the results of the Pallisser Expedition: (D) Illiserates of Routes from St. Paul to Fort Ellice and Edmonton House as observed by Ellis Smith, Civil Engineer, and Col. W. H. Nobles.

communication from Minnesota to British Columbia, and, what is of more immediate importance to the State, will bring an immense and fertile dis-

immediate importance to the State, will bring an Immense and fertile district, whose colonization can be no longer postponed, into prolitable connection with the public thoroughfares of Minnesota.

5. The testimony of John E. Harriott, Esq., Arch-deacon Hunter, Bishop Tache and others was explicit, that the country upon the north branch of the Saskatchewan is superior, for the purpose of agriculture, to the plains of the South Saskatchewan. The latter are destitute of timber, except on a range of elevations near the international boundary, and partake of the cretaceous formation apparent on the Upper Missouri. The regions adjacent to Fort Pelly, Carlton House, Fort Pitt and Edmonton House—well known points in a general northwestern direction from Fort Garry—are remarkably points in a general northwestern direction from Fort Garry—are remarkably adapted to the cultivation of grain and the sustenance of cattle. The scenery of the North Saskatchewan is fully equal to that of the Misslssippi between Galena and the Falls of St. Anthony.

6. The limit of successful agriculture in the Northern Temperate Zone should be carried considerably beyond the Saskatchewau valley, especially near the Rocky Monntains. Sir Roderick Murchison, in a recent address before the London Geograpical Society, represents this chain of mountains to be greatly depressed in high northern latitudes, and, indeed, several of the tributaries of the Mackenzie have their sources on the Pacific slope, and who through the mountains before falling into the great Artic river. The mountain valleys of the Peace and Liard rivers from latitude 56 degrees to 60 degrees, are thus influenced by the Pacific winds, and wheat, with other cereals is success-

7. The present agriculture of Selkirk confirms the evidence from a variety of sources, that the districts west and northwest of the Red River valley, are well adapted to settlements. For the production of wheat, barley, rye, oats peas, potatoes, vegetables, grass—whatever is grown in Minnesota except malze, the region in question will be unsurpassed by any other area of simi-

maize, the region in question will be insurpassed by any other area of sinitar extent on the continent. (3.)

The foregoing are material considerations. Closely related to these is a topic of political character. With the extension of the British Colonial System, now seen to be imminent, there is reason to believe that the government of Franchard and the United States will consume to the recent actionment. ments of England and the United States will consummate the recent settlement of the prolonged dispute in Central America, by an adjustment of the future relations of the British Provinces and American States, upon a basis of matual interest and good will. Such an International compact might provide for a Customs and Postal Union between the Provinces and the United States. It should at all events, stipulate that the Reciprocity Treaty, enlarged in its provisions and renewed for a long period of years, shall be extended to the Pacific Ocean, and in connection therewith, all the laws discriminating between American and foreign built vessels should be abolished, establishing freedom of navigation on all intermediate rivers and lakes of the respective Territories. Such a policy of free trade and navigation with British America would give to the United States, and especially to the Western States all the commercial advantages, without the political embarrassments of annexation, and would in the sure progress of events relieve our extended Northern frontier from the horses and injuries of war heteroet fraction. ern frontier from the horrors and injuries of war between fraternal commu-

Who can doubt that it would be speedily followed by overland mails and the telegraph on the Pembina and Saskatchewan route, and a Continental

^(3.) See Apriendix (E.) for some extracts, showing the increased productiveness of plants near the northern limit of their successful growth. The extraordinary returns from the cereals sown at Seikirk illustrates this climatic law.

that is of more and fertile disditable connec-

Hunter, Bishop orth branch of o the plains of er, except on n ake of the creegions adjacent se-well known are remarkably The scenery

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sted to these is a British Colonial that the governrecent settlement ent of the future upon a basis of act might provide and the United y Treaty, cnlarged all be extended to ws discriminating shed, establishing of the respective th British Ameri-Western States all ssments of annex-extended Northiraternal commu-

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eductiveness of plants nary returns from the

railroad, as advocated by Maury, which England would recognize as essential to her interests in Northwest America and the Pacific coasts? (4.)

to her interests in Northwest America and the Pacific coasts? (4.)

The above is intended as an enumeration, by no means as an exposition, of our relations to Central British America. I shall close this communication with some notes, equally enrsory, upon Northern Minnesota.

1. The steamboat navigation of the Red River of the North will be regular during the summer of 1860. The \$IAr = n\$ Northup is in course of thorough repair and equipment. Arrangements are also in progress for additional steamers upon Red River and Lake Winnipeg.

2. It is hoped and presumed that a weekly mail to Pembina will be conceded by the Government of the United Sates. The authorities of Assiniboia will cheerfully contribute to the expenditure requisite for such a mail service.

service.

3. The Legislature of Minnesota having at the present session, adopted memorials to the Executive and Legislative Departments at Washington, in favor of an extension of the Reciprocity Treaty, in favor of a military post in the valley of the Pembina River, and for the extinction of the Indian title in the northwestern portion of Minnesota,—1 shall not enlarge upon those

the northwestern portion of Minnesota,—I shall not enlarge upon those topics.

4. My return trip from Pembina, was over the probable extension of the branch line of the Minucsota and Pacific Railroad, by way of the Crossing of Red Lake River, Detroit Lake, and Otter Tail Lake, to Crow Wing.—For the first eighty miles of this route, from Pembina to the Rapids which limits steamboat navigation from the month of Red Lake river, the trail follows a ridge, as distinctly defined as the formations south of Lakes Erie and Ontario, over which pass the well known "Ridge Roads." The vicinity of Otter Tail Lake for fitty miles in all directions, is unsurpassed in the combination of forests, small prairies, lakes and rivulets, by the most favored sections of the State. I am satisfied that the whole course of the Leaf Mountains, as the divide between the tributaries of the Mississippi and Red Rivers is designated, will be found no tess attractive, even to Red Lake. The forests surrounding this lake are destined to furt.ish large quantities of pine lumber to the Red River settlements.

5. On the subject of coal deposits, while no doubt exists that the sources of the Saskatchewan traverse an extensive coal field, it is yet unfeertain whether the upland district which separates the basins of the Minnesota and the Red River of the North from those of the Upper Missouri and the Saskatchewan, are carboniferous. By all geological anology, a coal formation should exist between the silurian system of Minnesota and Sckirk, and the cretaceous plateau which Nicollet identified on the Missouri, due west from St. Paul, and which Professor Hindes, of the Canmadian Exploration, traced along the same longitude as far north as latitude 53.9.

6. The allusion just made to the exploring expedition conducted under the authority of Canuda, justfies a tribute to the zeal and intelligence with which the enterprise of an Emigrant and Transportation Route, from Fort William on the north slore of Iake Superior, to Fort Garry, is prosecuted. With the c

⁽i.) The whole subject of railroad communication with Asiatic Commerce is luminously represented in a communication of Commander Mauray to Col. D. A. Robertson. Appendix (F.) See (it) an abstract of intelligence respecting British Columbia and (H) in regard to a Pacific Ocean Telegraph.

capitalists, is expected to resume operations during the summer of 1760.—
These movements of our Provincial neighbors cannot fail to influence the policy of Minnesota in favor of more satisfactory comunications than we now possess between Lake Superior and the channels of the Upper Mississippi and the Red River of the North.

1 desire in conclusion to express my obligations to the late Executive of Minnesota, for the confidence implied by the commission, to which the foregoing is a response. Belleving firmly that the prosperity and development of this State is intimately associated with the destiny of the Northwest British America. I am gratified to record the rapid concurrence of events which indicate that the frontier, hitherto resting upon the sources of the Saint Lawrence and the Mississippi, is soon to be pushed far beyond the International Irontier by the march of Anglo-Saxon civilization.

Very respectively submitted,

JAMES W. TAYLOR.

of 1760.influence the than we now ssissippi and

Executive of h the forego-levelopement Northwest ice of events ources of the

YLOR.

APPENDIX "A."

Central Bruish America -- By J. W. Taylor

Even before the announcement of the discovery of gold upon the Frazer River and its tributaries, the people of Ca:
Mest inal induced the Parliment of England to institute the inquiry whether the region of British America, extending from Lake Superior and Minipeg to the Rocky Mountains, is not adapted by fertility of soil, a "avorable climate, and natural advantages of internal communication, for the support of a prosperous colony of England
The Parlimentary investigation is

of England

The Parlimentary investigation had a wider scope. The select committee
of the House of Commons was appointed "to consider the state of those
British possesseins in North America which are under the administration
of the Hudson Bay Company, or over which they possess a license to trade;
and therefore witnesses were called to the organization and management of
the Company itself, as well as the natural features of the country under its
administration.

administration.

On the 31st of July, 1857, the committee reported a large body of testimony, but without any decisive recommendations. They "apprehend that the districts on the Red River and the Saskatchewan are among those most likely to be desired for early occupation," and "trust that there will be no difficulty in effecting arrangements betwen her Majesty's government and the Hudson Bay Company, by which those districts may be ceded to Canada on equitable principles, and within the districts thus annexed to her, the authority of the Hudson Bay Company would of course entirely cease." They deem it "proper to terminate the connection of the Hudson Bay Company with Vancouver Island as soon as it could conveniently be done, as the best means of favoring the developement of the great natural advantages of that important colony; and that means should also be provided for the ultimate extension of the colony over any portion of the adjacent continent, to the west of the Rocky Mountains. on which permanent settlements may be found practicable."

tound practicable."

These suggestions indicate that the zone of the North American continent, between latitude 49 o and 55 o, embracing the Red River and the Saskatchewan districts east of the Rocky Monntains, and the area on their western slope, since organized as British Columbia, was, in the judgment of the committee, suitable for permanent settlement. As to the territory north of the parallel of 55 o, an opinion was intimated that the organization of the Hudson Bay Company was best adapted to the condition of the country and its inhabitants.

Within a year after the publication of the report, a great change passed its inhabitants.

over the North Pacific coast. The gold discovery on the Frazer's River oc curred; the Pacific populations flamed with excitement; British Columbia was promptly organized as a colony of England; and, amid the acclamations of Parliament and people Sir Edward Enland. of Parliament and people, Sir Edward Bulwer Lytton proclaimed, in the name of the government, the policy of continuous colonies from Lake Superior to the Pacific, and a highway neross British America as the most direct route

The eastern boundary of British Columbia was fixed upon the Rocky Mountains. The question recurred, with great force, what shall be the destiny of the fertile plains of the Saskatchewan and the Red River of the North? Canada maked forward an exploration of the route from Fort William on of the fertile plains of the Saskatchewan and the Red River of the North? Canada pushed forward an exploration of the route from Fort William, on Lake Superior to Fort Garry, on the Red River, and, under the direction of S. J. Dawson, Esq., civil engineer, and Professor J. Y. Hinde, gave to the world an impartial and impressive summary of the great natural resources of the basin of Lake Winnipeg. The merchants of New York were prompt to perceive the advantages of connecting the Eric Canad and the great Lakes with the unvigable channels of Northwest America, now become prominent and tamiliar designations of commercial geography. A report to the Lakes with the invigable channels of Northwest America, now become prominent and familiar designations of commercial geography. A report to the New York Chamber of Commerce very distinctly corrected the erroneous impression, that the valleys of the Mississippi and St Lawrence rivers exhausted the northern and central areas which are available for agriculture. "There is in the heart of North America," said the report, "a distinct will be supported by the support of the property of the prope

subdivision, of which Lake Winnipeg may be regarded as the center. This subdivision, like the viley of the Mississippi, is distinguished for the fertility of its soil, and for the extent and gentle slope of its great plains, watered by the so of great length, and admired to relate the steam navigation. It has rivers of great length, and admirably adapted for steam navigation. It has a dimete nat according to a steam navigation. rivers of great length, and admirably adapted for steam navigation. It has a climate not exceeding in severity that of many portions of Canada and the Eastern States. It will, in all respects, compare favorably with some of the most densely peopled portions of the continent of Europe. In other words, it is admirably litted to become the seat of a numerous, hardy, and prosperous community. It has an axen count to circle or ten first class A merican States. It is admirably intent to become the seat of a numerous, marcy, and prosperous its great river, the Saskatobewan, carries a navigable water line to the very buse of the Rocky Mountains. It is not at all improbable that the valley of the Rocky Mountains. It is not at all improbable that the valley of this river may yet offer the b st route for a railroad to the Pacific. The navigable waters of this great subdivision interlock with those of the Mississippi, igable waters of the North, in connection with Lake Winnipeg, into which The Red River of the North, in connection with Lake Winnipeg, into which it falls, forms a navigable water line, extending directly North and South incarly eight hundred miles. The Red River is one of the best adapted to the nearly eight hundred miles. The Red River is one of the best adapted to the nearly eight hundred miles. The Red River is one of the cost adapted to the nearly eight hundred miles. The Red River is one of the finest regions on the continues of steam in the world, and waters one of the finest regions on the continues of steam in the world, and waters one of the finest regions of the continues of steam in the world, and waters one of the finest regions of the continues of steam in the world, and waters one of the finest regions of the completed, another grand division of the continues, comprising half a million square railes, will be open to settlement."

The sanguine temper of these remarks illustrates the rapid progress of months before. Offthe same tener, though faller in details, were publications on the substant in Charles and tener, though faller in details, were publications. community. It has an area equal to eight or ten first class American States.

months before. Of the same tener, though fuller in details, were publications on the subject in Canada and even in England. The year 1859, opened with greatly augmented interest in the district of Gentral British America. The manifestations of the interest varied with localities and circumstances.

In Canada no expertunity was consisted either in Berlinger or by the process.

In Canada no opportunity was omitted, either in Parliment or by the press, to demonstrate the importance to the Atlantic and Lake Provinces of extensions settlements into the prairies of Assimiboia and Saskatchewan—thereby affording advantages to Provincial commerce and manufactures like those which the communities of the Mississippi valley have conferred upon the older American States.

Nevertheless, the Canadian government declined

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pon the Rocky of the North? ort William, on the direction of de, gave to the natural resources ork were prompt I and the great ow become prom-A report to the nce rivers exhaus-griculture.

port, "a distinct the center. This ed for the tertility dains, watered by avigation. It has of Canada and the with some of the In other words, rdy, and prosperous s American States. er line to the very e that the valley of Pacific. The nav-of the Mississippi. innipeg, into which North and South best adapted to the ions on the conti-, and St. Paul, on ad when this road

rapid progress of iry, only eighteen s, were publications 1859, opened with tish America. The cumstances. ment or by the press,

rising half a million

Provinces of extenatchewan-thereby factures like those conferred upon the overnment declined

to institute proceedings before the English Court of Chancery or Queen's Bench, to determine the validity of the charter of the Hudson's Bay Company—assigning, as reasons for not acceding to such a suggestion by the law officers of the crown, that the proposed ligitation might be greatly protracted while the interests involved were urgent—and that the duty of a prompt and definite adjustment of the condition and relations of the Red River and the Saskatchewan districts was manifestly incumbent upon the Imperial authority.

This decision, added to the indisposition of Lower Canada to the policy of westward expansion is understood to have convinced Sir E. B. Lytton that annexation of the Winnipeg basin to Canada was impracticable, and that, the exclusive occupation by the Hudson's Bay Company could be removed only by the organization of a separate colony. The founder of British Columbia-devoted the latter portion of his administration of the Colonial Office to measures for the satisfactory arrangement of conflicting interests in British America. In October 1858, he proposed to the directors of the Hudson's Bay Company that they should be consenting parties to a reference, of questions respecting_the_validity and extent of their charter, and respecting the geographical extent of their Territory, to the Judicial Committee of the Privy Council. The Company "reasserted their right to the privileges granted to them by their charter of incorporation," and refuse to be a consenting party to any proceeding which might call in question their chartered rights.

Under date of November 3, 1858, Lord Caernarvon, Secretary of State for the Colonies, by the direction of Sir E. B. Lytton, returned a dispatch, the tenor of which is a key not only to Sir Edward's line of policy, but, in all probability, to that of his successor, the Duke of Neweastle. Lord Caernarvon began by expressing the disappointment and regret with which Sir E. B. Lytton had received the communication, containing, if he understood its tenor correctly, a distinct refusal on the part of the Hudson's Bay Company to entertain any proposal with a view of adjusting the cofficting claims of Great Britian, of Canada and of the Company, or to join with her Majesty's government in affording reasonable actilities for the settlement of the questions in which Imperial no less than Colonial interests were involved. It had been This decision, added to the indisposition of Lower Canada to the policy of

in which Imperial no less than Colonial interests were involved. It had been his anxious desire to come to some equitable and conciliatory aggreement, by which all legitimate claims of the Company should be fairly considered with reference to the Territories or the privileges they might be required to surrender. He suggested that such a procedure, while advantageous to the interests of all parties, might prove particularly for the interest of the Hudson's Bay Company. "It would afford a tribunal preeminently fitted for the dispassionate consideration of the question at issue; it would seeme a decision which would probably be rather of the nature of an arbitration than of a judgement; and it would furnish a basis of negotiation on which reciprocal concession and the claims for compensation could be most successively dis-

With such persuasive reiteration, Lord Caernarvon, in the name and at the instance of Sir E. B. Lytton, insisted that the wisest and most dignified course would be found in an appeal to and a decision by the Judicial Committee of the Privy Council, with the concurrence alike of Canada and the Hudson's, Bay Company. In conclusion, the Company were once more assured, that if they would meet Sir E. B. Lytton in finding the solution of a recognized difficulty, and would undertake to give all reasonable facilities for trying the validity of their disputed charter, they might be assured that they would meet with a fair and liberal treatment, so far as her Majesty's government was concerned; but if on the other hand, the Compay persisted in declining these terms and could suggest no other practicable mode of agreement, Sir E. B. Lytton.

held himself acquitted of further responsibilty to the interests of the Co mpany, neignius acquired of further responsibility to the interests of the Company, and, proposed to take the necessary steps for closing a controversy too long open and for securing a definite decision, due alike to the muterial development of the North America and to the muterial development of and for securing a demnic decision, decame to the material development of British North America and to the requirements of an advancing civiliza-

The communication of Lord Caernaryon stated in addition, that in the case Ine communication of Lord Caernaryon states in addition, that in the case last supposed, the renewal of the exclusive right to trade in any part of the Indian territory—a renewal which could be justified to Parliament only as a part of a general agreement adjusted on the principles of mutual concession—

would become impossible.

These representations failed to influence the Company. The Deputy Governor, Mr. H. H. Barens, responded that, as, in 1850 the Company had assented to an inquiry before the Privy Council into the legality of certain ing the validity of the charter itself, so, at this time, if the reference to the Privy Council were restricted to the question of the geographical extent of Privy Council were restricted to the question of the geographical extent of the territory claimed by the Company, in accordance with a proposition that the territory diamed by the Company, in accordance with a proposition of the geographical extent of the territory diamed by the Company, in accordance with a proposition only, 1857, by Mr. Labouchere, then Secretary of State for the Colmoles, the directors would recommend to their shareholders to concer in the course suggested; but must decline to do so, if the inquiry involved not merely ourse, the directors would recommend to their shareholders to concern he will course suggested; but must decline to do so, if the inquiry involved not merely course suggested; course suggested; but must decline to do so, if the inquiry involved not merely the question of the geographical boundary of the territories claimed by them, the question of the validity of the charter itself, and, as a consequence, of the rights and privileges which it professed to grant, and which the Company that exercised for a period of nearly two hundred years. Mr. Barens protected that the Company had at all times been willing to entertain any proposal that might be made to them for the surrender of any of their rights or of that mortion of their territory: but he regarded it as one thing to consent for any portion of their territory; but he regarded it as one thing to consent for a consideration to be agreed upon to the surrender of admitted rights, and quite another to volunteer a consent to an inquiry which should call those rights in

A result of this correspondence has been the definite refusal of the Crown A result of this correspondence has been the definite refusal of the Crown to renew the exclusive right to trude in Indian territory. The license had been twice granted to the Company, under an act of Parliament authorizing it, for periods of twenty-one years—once in 1821 and once in 1838. It expired to the 30th of May, 1839. In consequence of this refusal the Company must open dexclusively upon the terms of their charter for their special privileges in British America. The charter dates from 1670—a grant by Charles II depend exclusively upon the terms of their charter for their special privileges in British America. The charter dates from 1670—a grant by Charles II to Prince Rupert and his associates, "adventurers of England trading in Hudson's Bay,"—and is claimed to give the right of exclusive trade and of territorial dominon to Hudson's Bay and tributary rivers. By the expiration of the exclusive license of Indian trade, and the termination in 1859 of the lease of Vancouver's Island from the British government, the sway and influence of the Company are greatly restricted, and the feasibility of some permanent adjustment is proportionately increased.

There is no necessity for repeating here the voluminous argument for any

adjustment is proportionately increased.

There is no necessity for repeating here the voluminous argument for an against the charter of the Hudson's Bay Company. The interest of British against the charter of the Hudson's Bay Company. The interest of British along the charter of the Hudson's Bay Company. The interest of British and the Canadian Statesmen are wise in declining to relieve the the kind, and the Canadian Statesmen are wise in declining to relieve the English cabinet from the obligation to act definitely and speedily upon the English cabinet from the obligation to act definitely and speedily upon the English cabinet from the obligation of the East India Company, was no obstacle to subject. The organization of the East India Company, was no obstacle to a measure demanded by the honer of England and the welfare of India; and a measure demanded by the honer of England and the welfare of India; and a measure demanded by the honer of England and the welfare of India; and a measure demanded by the honer of England and the welfare of India; and a measure demanded by the honer of England and the welfare of India; and a measure demanded by the honer of England and the welfare of India; and a measure demanded by the honer of England and the welfare of India; and a measure demanded by the honer of England and the welfare of India; and a measure demanded by the honer of England and the welfare of India; and a measure demanded by the honer of England and the welfare of India; and a measure demanded by the honer of England and the welfare of India; and a measure demanded by the honer of England and the welfare of India; and a measure demanded by the honer of England and the welfare of India; and a measure demanded by the honer of England and the welfare of India; and a measure demanded by the honer of England and the welfare of India; and the welfare of India

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England trading in Hude trade and of territorial y the expiration of the in 1859 of the lease of e sway and influence of ility of some permanent

The interest of British any technical inquiry of a declining to relieve the and speedily upon the pany, was no obstacle to he welfare of India; and not deter any deliberate ation of Central British Bay Company are always ise with the government.

The late letter of Mr. Barrens to Lord Caernarvon expressed a willingness, at any time, to entertain proposals for the surrender of franchises or territory; and in 1848, Sir J. H. Pelly, Governor of the Company, thus expressed himself in a letter to Lord Grey: "As far as I am concerned, (and I think the Company will concur, if any great national benefit would be expected from it.) I would be willing to relinquish the whole of the territory held under the charter on similar terms to those which it is proposed the East India Company shall receive on the expiration of their charter—namely, securing the proprietors an interest on their capital of ten per cent."

At the adjournment of the Canadian Parliament and the retirement of the Derby Ministry, in the early part of 1859, the position and prospects of English colonization in Northwest America, were as follows:

1. Vancouver's Island and British Columbia passed from the occupation

of the Hudson's Bay Company into an efficient colonial organization. The gold fields of the interior had been ascertained to equal in productiveness, and greatly to exceed in extent those of California. The prospect for agriculture was no less favorable—while the commercial importance of Vancouver and harbors of Puget's Sound is unquestionable.

2. The eastern slope of the Rocky Mountains and the valleys of the Sastantial Commercial Comm

katchewan and Red River were shown by explorations, conducted under the auspices of the London Geographical Society and the Canadian authorities, to be a district of nearly four hundred thousand square miles, in which a fertile soil, favorable climate, useful and precious minerals, fur bearing and food yielding animals, in a word, the most lavish gifts of nature, constituted highly satisfactory. factory conditions for the organization and settlement of a prosperous com-

munity.

3. In regard to the Hudson's Bay Company, a disposition prevailed not to disturb its charter, on the condition that its directory made no attempts to enforce an exclusive trade or interfere with the progress of settlements. All parties anticipated Parliamentary action. Letters from London spoke with confidence of a bill, drafted and in circulation among members of Parliament, for the erection of a colony between Lakes Superior and Winnipeg and the eastern limits of British Columbia, with a northern boundary resting on the parallel of of 55°; and which, although postponed by a change of ministry, was understood to represent the views of the Duke of Newcastle, the successor of Sir E. B. Lytton.

4. In Canada West, a system of communication from Fort William to Fort Garry, and thence to the Pacific was entrusted to a company—the Northwest Transit"—which was by no means inactive. A mail to Red River over the same route, was also sustained from the Canadian Treasury; and Parliament, among the acts of its previous session, had conceded a charter for a line of telegraph through the valley of the Saskatchewan, with a view to an extension to the Pacific coast, and even to Asiatic Russia.

Simultaneously with these movements in England and Canada, the citizens of the State of Minnesota, after a winter of active discussion, announced a determination to introduce steam navigation on the Red River of the North. Parties were induced to transport the machinery and cabins, with timber for the hull of a steamer, from the Mississippi river, near Crow Wing, to the mouth of the Shayenne, on the Red River, where the boat was reconstructed. The first voyage of the steamer was from Fort Abercrombie, an American post two hundred miles northwest of St. Paul, down north to Fort Garry, during the month of June. The reception of the stranger was attended by extraordinary demonstrations of enthusium at Selkirk. The bells of Saint Boniface rang greeting, and Fort Garry blasted powder, as if the Governor of the Company were approaching its portal. This unique but interesting com-

munity, fully appreciated the fact that steam had brought their interests within the circle of the world's activities.

This incident was the legitimate sequel to events in Minnesota which had transpired during a period of ten years. Organized as a territory in 1849, a single decade had brought the population, the resour a and the public recognition of an American State. A railroad system connecting the lines of the Lake States and Provinces at La Crosse, with the international frontier to the Lake States and Provinces at La Crosse, with the international frontier of its construction a grant by the Congress of the United States of three of its construction a grant by the Congress of the United States of three thousand eight hundred and forty acres a mile, and a loan of State credit to thousand eight hundred and forty acres a mile, and a loan of State credit to the amount of twenty thousand dollars a mile, not exceeding an aggregate of the emillion dollars. Different sections of this important extension of the Canadian and American railways were under contract and in process of concanadian and American railways were under contract and in process of concanadian and American railways were under contract and in process of concanadian and American railways were under contract and in process of concanadian and American railways were under contract and in process of concanadian and American railways were under contract and in process of concanadian and American railways were under contract and in process of the general government had struction. In addition, the land surveys of the general government had struction. In addition, the land surveys of the general government had struction in the United States, no less than the people of Minnesota.

were represented in the Northwest movement.

Still, its consummation rests with the people and parliament of England.

Sir Edward Bulwer Lytton was prepared with a response to his own memorable query—"What will he do with it?" Shall the Liberal Party be less aprompt and resolute in advancing the policy, announced from the throne in 1858, of an uninterrupted series of British colonies across the continent of North America? This will be determined by the Parliamentary record of 1860.

It will be seen from the following report of a debate in the British Partiament, received since the foregoing papers were in type, that the expectation of a speedy colonial organization beyond Minnesota, is likely to be realized at an carly day :

THE RED RIVER SETTLEMENT.

House of Commons, Feb. 13. The Earl of Caernaryon inquired what was the intention of Her Majesty's government with regard to the administration of the Red River Settlement and those parts of the Saskatchewan district recommended by the Committee and the Hange of Commence in 1987, to be writted as the intention of the Hange of Commence in 1987, to be writted as the intention of the Hange of Commence in 1987, to be writted as the intention of the same of Commence in 1987, to be writted as the intention of the same of the and those parts of the Saskatenewan district recommended by the Committee of the House of Commons in 1857, to be withdrawn from the jurisdiction of the Hudson's Bay Company. The noble earl stated that on the 31st of May last the exclusive license to trade, which had been granted to the Hudson's Bay last the exclusive license to trade, which had been granted to the Hudson's Garden coming and the company accorded the serious responsibility of delast the exclusive license to trade, which had been granted to the Hudson's Bay Company expired, and the company accepted the serious responsibility of declining to renew it upon any other terms than those on which they had previously held it. Later in the year the government wisely took powers under an act for the appointment of Magistrates in the Red River Settlement and parts of the Saskatchewan districts, and for securing a more effective system of criminal administration. He wished to know whether any, and if any, of criminal administration what steps had been adopted under that act. Communications which had what steps had been adopted under that act. Communications which had what steps had been adopted under that act. Communications which had the Red River Settlement was one calculated, to say a sat, to cause some the Red River Settlement was one calculated, to say a sat, to cause some the Red River Settlement was one calculated, to say a strong feeling of dissatisfaction on the uneasiness. First of all, there was a strong feeling of dissatisfaction on the part of the colonists themselves, and he might state that during the short time he had connexion with the colonial office, two petitions were received from part of the colonists themselves, and he might state that during the short time he had connexion with the colonial office, two petitions were received from the inhabitants of the settlement, praying for extensive alterations in the form of government and general system of administration. Secondly, the settlement had been entered by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of Canadiana who are contracted by a lower provided of the contracted by a lower provided by a lower provid ment had been entered by a large number of Canadians, who refused to pay duties on the ground that they they were not leviable from them, and introerests within

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ions, Feb. 13. Her Majesty's River Settlement y the Committee ae jurisdiction of the 31st of May the Hudson's Bay ponsibility of de-nich they had preook powers under er Settlement and re effective system any, and if any cations which had he present state of ast, to cause some satisfaction on the ring the short time vere received from rations in the form condly, the settle who reinsed to pay n them, and intro-

duced spirits among the Indians, thereby contributing to their demornlization. Moreover, the same persons, by distributing themselves over ground not be longing to the Red River Settlement, were raising a question of great legal nicety, which ought not to be determined in such an irregular manner. Lastly, during the past year American citizens had crossed the borders in considerable numbers, introduced spirits, established an unlicensed and irregular trade, and were practically under no sort of control or authority whatever. He was not afraid of American colonization in that part of the world, which presented an ample field for energy, industry, and speculation of all kinds. Even in the case of British Columbia, which possessed special attractions, he entertained little apprehension, because he believed that the same sense of law and order, and the same obedience to constituted nuthority which prevailed and order, and the same obedenede to constanted nuthority which prevaled in every part where the Anglo-Saxon race had taken root, would be displayed in that recently established community. But he viewed the Red River Settlement in a different light, and he should esteem it a grievous misfortune if, from any omission on the part of the Home Government or of the local authorities, the sympathics of the settlement should be alienated from the Crown, and cut off as it was from all communication with British North America, it should turn rather towards the United States that towards Canded. ada. There were two roads which connected the Red River Settlement with our possessions in North America, but they were little used, and, indeed, were onr possessions in North America, but they were note used, and, moset, were impracticable during a greater part of the year; whereas, the road which connected the settlement with the territory belonging to the United States was a good one, and was the route by which the largest amount of traffic was carried on. Last summer trade to the amount of \$1,500,000 passed between the Red River Settlement and the United States; a small steamer had been placed on the Red River in order to facilitate the traffic, and, upon the whole. he was afraid the tendency in the settlement was towards a connection with the American Republic. This was a very important question, and the present time was a most critical one, so much so that upon the conduct of the Colonial Secretary during the next few years it might depend what should be the ultimate destiny of this colony. He did not advocate the payment of any sums out of the Imperial exchequer to attain the objects which he had in view; but he believed that this was a question rather of policy than of except the state of the penditure, and that much might be accomplished by a judicious exercise of the influence of the Colonial Office. The noble carl concluded by asking the questions of which he had given notice.

The Duke of Newcastle said that, with reference to what had hitherto been

The Duke of Newcastle said that, with reference to what had hitherto been the licensed territory of the Hudson's Bay Company, the government of that company, although theoretically swept away, yet practically remained in force. The posts of the company continued in existence, and, as the jurisdiction of the company was of a very primitive and patriarchal kind, not founded on any exact form of law, it had in fact survived the expiry of the license. Ho was satisfied that the less we disturbed the present relations between the Europeans and the half-breeds and the native Indiana the better, and therefore, although many gentiemen had offered their services, he had not yet exercised the power of appointing magistrates which was conferred upon him by the act of last session; nor should he do so, unless the introduction of spirits among the Indians, or other irregularities or disorders should render it necessary. With regard to the Red River and Saskatchewan districts, no information of such serious character as those mentioned by the noble earl had been received at the Colonial Office. Canadians and Americans bad, no doubt, crossed the frontiers, but nothing had occurred to lead the authorities to apprehend any evil consequence from the presence of either one or the other class of persons. No definite steps had yet been taken with regard to these settlements. His

noble friend knew how little information there existed until lately as to the land which was available for colonization. It was not till within the last three or four weeks that he had received the concluding portion of Captain Harris' report, and he had still later been put in possession of the important document prepared by Mr. Dawson of Toronto, which did so much credit to that gentleman, a native of Canada and a member of its legislature. Another important reason for not coming to any immediate decision on this question was the difficulty as to communication with the settlements. There were only was the difficulty as to communication with the settlements. There were only the modes of access—one from the north; one from the south, through the territory of the United States; and one from the cast, through Canada. It therefore, and that every facility should be given for the fullest access to them. The scheme nilvocated by Mr. Dawson in his report was, he thought, the most likely to tend to the colonization and settlement of these districts that could be devised. Refore anything could be done, however, for the future the Hadson's Bay Company. It was his desire to arrive at such a settlement of these districts, it was necessary to make some arrangement with last session containing a correspondence between the Colonia office and the last session containing a correspondence between the Saskatchewa districts, yield upon equitable terms, either immediate or by degrees, the jurisdiction, yield upon equitable terms, either immediate or saskatchewa districts, with a view to their colonization under imperial anspices. It was, of course, over these two settlements—the Red River and the Saskatchewa districts, with misself into comminication with the Hudson's Bay Company, in which the Hudson's Bay Company, in which the Hudson's Bay Company, in which the company exerce, and he intended to necessary to ascertain what these equitable terms were, and he intended to necessary to ascertain what these equitable terms when the Hu put nimsell into communication with the Hudson's Bay Company, in order to see whether the territory in question could not be surrendered to the government without litigation or dispute. The next step would be to establish some form of government in these settlements, which, in the first instance, question to be as simple and inexpensive as possible. It was desirable that some form of government in these settlements, which, in the nest instance, ought to be as simple and inexpensive as possible. It was desirable that gristation should take place, if possible, during the present session on this subject. subject.

vithin the last ion of Captain the important much credit to ture. Another on this question There were only ath, through the 18th Canada. It inized by British t access to them. , he thought, the hese districts that er, for the future arrangement with such a settlement pers were published onial office and the ed a willingness to ees, the jurisdiction katchewun districts,

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It was, of course, and he intended to company, in order to dered to the governould be to establish, in the first instance, t was desirable that nesent session on this

APPENDIX "B."

Geographical Memoir of the Red River and Saskatchewan District of British America .- By JAMES W. TAYLOR.

Extract from Report of a Committee of the St. Paul Chamber of Commerce, Jan. 22, 185

The area comprised within the rivers, converging to Lake Winnipeg is estimated to contain 400,000 square miles. Familiar as the American public is with the progress of Mississippi States, the Committee are inclined to review the basin of Lake Winnipeg from our western stand-point of its eapacity to be divided and occupied as States or Provinces, each having an uverage area of 50,000 square miles. Starting, therefore, from that point of the Western boundary of Minnesota, which is now or may be improved to become the head of steamboat navigation on the Red River, the indulgence of the Chamber is asked while, we proceed in convenient subdivisions, to of the Chamber is asked, while we proceed in convenient subdivisions, to group a considerable number of facts, geographical and otherwise, demonstragroup a considerable number of facts, geographical and otherwise, demonstrating the future importance of that river navigation which is to be the avenue to the vast district inclosed between latitude 49 deg. and 55 deg., and extending from the north shores of of Lake Winnipeg to the Rocky Mountains.

THE AMERICAN VALLEY OF THE RED RIVER.

Of this district, Lac Traverse in one direction, and Otter Tail Lake in a

Of this district, Lac Traverse in one direction, and Otter Tail Lake in a line nearer north from Saint Paul—either point not more than two hundred miles distant—may be regarded as its extreme southern limits: Pembina and the international frontier, the Northern, while the longitude of Red Lake on the East, and of Minnewakan or Spirit Lake on the West, are convenient designations of the remaining boundaries. This area would extend from about 1 at. 46 to 49, and from longitude 95 30 to 90 deg.

Capt. Pope, in his exploration of 1849, remarks that for fifty miles in all directions around Otter Tail Lake, is the garden of the Northwest. The outlet of the Lake, constituting the source of the Red River of the North, has been very favorably described by Dr. Owen, of the United States Geological Survey. It presents a succession of lakes and rapids, while at other points rolling prairies extend from its banks, created with beautifully dispersed groves of timber. It was in this section of Minnesota Ithat the magnesian limestone containing silurian fossils, identical with those in the bluffs of the Mississippi below St. Paul, was recognized by Dr. Owen in situ—showing Mississippi below St. Paul, was recognized by Dr. Owen in situ—showing that the primary formation, which divides Minnesota from Northwest to Southwest, is succeeded to the Northwest by the ascending series of sedi-

Many of our citizens have frequently traversed the district just named. and their testimony is, that Westward from Otter Tail Lake for at least one

hundred miles, and Northward to Red Lake, if not beyond, no more favorable distribution of beautiful prairies and forests can be imagined. are numerous but small, and almost invariably skirted with timber, the Seldom is the traveler out of sight of

are numerous but sman, and amost invariantly sugar maple largely preponderating. Seldom is the traveler out of sight of these groves, while the soil is unsurpassed.

From Dr. Owens' Geological Report, it appears, that below the head of navigation the Western bank of the Red river is a vast plain, but on the navigation the Western bank of the Red river is a vast plain, but on the navigation that the control bank of the river banks: East, where the country is level, timber is more abundant on the river banks; the soil is congenial to the ash which attains a large size; below the mouth of Red Lake river strong chalybeate springs are also found, and all accounts concur that hardly an acre but is eminently adapted to the cultivation of wheat. This great staple, with the aid of machinery, will hereafter be enlighted more advantageously over the Northwestern areas of the continuity vated more advantageously over the Northwestern areas of the continent, than in the Mississippi basin.

We believe that this is the official designation of the district of British America occupied by the Selkirk Settlements. It embraces the lower of America occupied of the Red river, and the productive valley of the Assimboin. Here is a civilized and interesting community of 10,000 souls—with schools. churches, a magistracy, and a successful agriculture. Its trade, consisting largely of the exclusing of firs, is concentrating at St. Paul, and is estimated lighter the pages 1959 to have appeared to C1 and and during the years 1858, to have amounted to \$1,000,000.

The Committee would refer, for fuller details in regard to the community The Committee would refer, for fuller details in regard to the community at Sclkirk, to the numerous publications recently made. The most important of these is a document circle lated by the Canadian Government—the Report of an exploring expedition—which among other interesting statements, shows that the soil and climate are even more favorable to agriculture than the vicinity of Toronto. The Minnesota farmer recognizes in these details a remarkable concidence with his own experience.

But North of the Red River Settlements, is a region almost a discovery of But North of the Red Haver Settlements, is a region almost a discovery of recent explorers, which is even more attractive than the prairie district contiguous to the Red and Assinibou rivers. Unmediately West of Lake Winnipeg are Lakes Winnipegoos and Manitoba, with an outlet flowing into Lake Winnipeg in latitude 52 deg. Tributary to Lake Winnipegoos, are the Red Deer and Swan rivers, which drain a country of rure beauty and the Red Deer and Swan rivers, which drain a country of rure beauty and the Red Deer and Swan rivers. fertility. A traveler, writing to a Canadian newspaper, describes its general features as rich prairies, interpersed with belts of heavy oak and elm, while features as rich prairies, interpersed with belts of heavy oak and elm, while the itinerary of Sir George Simpson affords a most glowing picture of the sources of Swan river. Under date of July 14th, he observes, "In this part of the country we saw many sorts of birds, geese, loons, pelicans, ducks, eranes, two kind of snipe, hawks, owls and gulls; but they were all so remarkable shy that we were constrained to admire them from a distance. In the afternoon we transpood a beautiful country with lefty hills and long values. afternoon we traversed a beautiful country with lofty hills and long valleys, full of sylvan lakes while the bright green of the surface, as far as the eye ould reach, assumed a foreign tinge, under an uninterrupted profusion of roses and blue bells. On the summit of one of these hills we commanded one of the few extensive prospects we had of late enjoyed. One range of hights rose hehind another, each becoming fainter as it receded from the eye, till the farthest was blended in almost undistinguishable confusion with the clouds, while the softest vales spread a panorama of hanging copses and glittering lakes at our

As Cumberland House is situated north of the valley of Swan river, upon the Saskatchewan, its name has been chosen to designate the district between re favorable The Lakes timber, the t of sight of

the head of but on the river banks; the mouth of l all accounts cultivation of alter be cultihe continent.

riet of British s the lower or he Assiniboin. -with schools, ade, consisting nd is estimated

the community most important ment—the Reing statements, agriculture than n these details a

st a discovery of irie district con-West of Lake itlet flowing into innipagoos, are rare beauty and cribes its general k and elm, while ng picture of the res, " In this part , pelicans, ducks. were all so remardistance. In the and long valleys. as far as the eye pted profusion of commanded one of ange of hights rose e eye, till the farth-he clouds, while the tering lakes at our

f Swan river, upon he district between longitudes 100 deg, and 105 deg, and from latitude 52 deg, to 55 deg. Au equal area immediately south, and between the parallels of 49 deg, and 52 deg., is no less attractive and fertile.

SASKATCHEWAN.

There remains, from longitude 105 to 115, and from latitude 49 to 55, the the respective valleys of the North and South Saskatchewan—ample in area and resources for four States of the extent of Ohio. We propose to consider the whole interval westward from the junction of the two rivers to the Rocky Mountains, without subdivision, as indeed, it is presented by Colton's Many of North America.

The prairie districts adjacent to the South Saskatchewan are described by Map of North America. The prairie districts adjacent to the South Saskatchewan are described by Canadian explorers, as inferior to the rich alluvial plains of the Red and Assiabion rivers, but Sir George Simpson's sketches of his ronte from Fort Carlton to Fort Edmonton, are suggestive of a superior agricultural region. During his first day's route, he describes the country "as so picturesque it is character that almost every commanding position presented the elements of a picturesque panoruma. The next day he camped near a large lake; and, on successive dates he refers to "bands of buffalo in all directions to the number of about five thousund," "abundant game," "bold scenery," "deincious wild fruits," "huxuriant crops of the vetch or wild pen, almost as nutritious a food for cattle and horses as oats," "a seam of coal ten feet in thickness," &c.

But there is an authority in regard to the more western portions of the Saskatchewan, whom the committee are solicitous to bring prominently before the public. We refer to Father De Smet, the devoted Jesuit missionary to the Indians of Oregon, mentioned by Gov. Stevens, in a recent address before the New York Geographical Society, as "a man whose name is a tower of strength and faith." possessing scientific attainments and great practical knowledge of the country. His "Oregon Missions" is a publication of much interest consisting of better to his property and a position of this public interest, consisting of letters to his superiors; and a portion of this volume interest, consisting of letters to his superiors; and a portion of this volume narrates his explorations and adventures in the Saskatchewan valleys of the Rocky Mountains. In September, 1854, he left the source of the Columbia river, in latitude 50, and crossed the Rocky Mountains, descending their eastern slope in latitude 51. He entered on the 18th of September, "a rich valley agreeably diversified with meadows, forests and lakes—the latter abounding in salmon tront." This was a mountain valley, however, and it was not till three days afterwards that he reached Bow river, or the South Fork of the Saskatchewan. Thence he continued northward, noticing salphurous found Saskatehewan. Thence he continued northward, noticing subhurous four-tains and coal on the Red Deer, a branch of the Bow river. Descending the valley of the Red Deer, which is also described in very glowing terms, at length he emerged upon what he describes as "the vast plain—the ocean of

Prairies."

On the evening of the same day, the missionary reached and was hospitably received at the Rocky Mountain House, latitude 53 deg., and longitude 115 deg., and on the 31st of October started for mother journey on the plains; but after two weeks absence, was compelled to seek refuge from the approach of winter (now the middle of November.) at Edmonton House on the Upper Saskatchewan.

From this shelter he thus writes in general terms:

"The entire region in the vicinity of the castern chain of the Rocky Mountains serving as their base for thirty or sixty miles, is extremely fertile, abound-

tains serving as their base for thirty or sixty miles, is extreaely fertile, abounding in forests, plains, prairies, lakes, streams and mineral springs. The rivers and streams are innumerable, and every side offer situations favorable for the construction of mills. The northern and southern branches of the Saskatchewan water the districts I have traversed for a distance of about three hundred

miles. Forests of pine, cypross, thorn, poplar and uspin trees, us well as others of different kinds, occupy a large portion of it, covering the declivities

of the mountains and banks of the rivers.

of the mountains and banks of the rivers.

"These originally take their rise in the highest chains, whence they issue in every direction like so many veins. The beds and sides of these rivers are pebbly, and their course rapid, but as they recede from the mountains they widen, and the currents lose something of their impetuosity. Their waters are usually very clear. The country would be capable of supporting a large population, and the soil is favorable to the production of barley, corn, potu-

population, and the son is according to the production of partey, countries, on these vast and innumerable fields of hay forever destined to be consumed by fire or perish in the autumnal snows? How long shall these superbounds the state of forests be haunts of wild beasts? And these inexhaustible quarries, abundand mines of coal, lead, sulphur, iron, copper and salt petre—can it be that they are deemed to remain forever inactive? Not so. The day will come when some laboring hand will give them value; a strong, active and enterprising people are destined to fill this spacious void. The wild beasts will, prove the strong densette surple stocks und hards will graze in ere long, give place to our domestic animals, flocks and herds will graze in the beautiful meadows that border the numberless mountains, hills, valleys.

and plains of this extensive region." Life at Edmonton during the winter season is thus sketched :

"The number of servants, including children, is about eighty. a large garden, a field of potatoes and wheat belonging to the establishment, a large garden, a field of potatoes and wheat belonging to the establishment, the lakes, forests and plains of the neighborhood furnish provisions in abundance. On my arrival at the Fort, the ice-house contained thirty thousand white-lish, each weighing four pounds, and five hundred buffalces, the ordinary amount of the winter provisions. Such is the quantity of aquatic birds in the season, that sportsmen often send to the Fort carts full of fowls. Eggs are ideal what thousands in the straw and weeds of the marshes. I visited season, that sportsmen often sent to the Fort carts find of lowes, aggs at picked up by thousands in the straw and weeds of the marshes. I visited Lake St. Anne, (a missionary station fifty miles north-west from Edmonton.) The surface of this region is flat for the mest part, undulating in some places—diversified with forests and meadows, and lakes teening with fish. In Lake Lake and place the state of the surface of the s St. Anne alone were caught last autumn, more than seventy thousand white-fish, the most delicious of the kind; they are taken with a line at every season

"Notwithstanding the rigor and duration of the winter in this northern region, the earth in general appears fertile. Vegetation is so forward in the spring and summer that pointoes, wheat and burley, together with other vege-

tables of Canada, come to maturity.

On the 12th of March, Father DeSmet started on his return trip, proceeding with sledges drawn by dogs over the snow, to Fort Jasper, situated Northwest from Edmonton on the Athabasca river, half a degree north of

latitude 53 deg. [Here occurred the following hunting adventure: "Provisions becoming scarce at the Fort, at the moment when we had with us a considerable number of Iroquois from the surrounding country, who were resolved to remain until my departure in order to assist at the instructions, we should have found ourselves in an embarrussing situation had not Mr. Frazer come to our relief, by proposing that we should leave the Fort and accompanying himself and family to the Lake of Islands, where we could subsist partly on fish. As the distance was not great we accepted the invitation, and set out to the number of 54 persons and twenty dogs. I count the latter because we are us much children to wravide for them as for count the latter because we are as much obliged to provide for them as for ourselves.

A little note of game killed by our hunters during the twenty-six days of our abode at this place will afford some interest—at least it will make you acquainted with the animals of the country, and prove that the

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Their waters porting a large ley, corn, potarn constrics.

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return trip, prot Jasper, situated degree north of enture :

ent when we had ounding country, to assist at the ining situation had ishould leave the Islands, where we t we necepted the twenty dogs. I de for them as for loring the twentyst—at least it will

and prove that the

mountvincers of the Athabasca are blessed with good appetites. Animals killed—twelve moose deer, two reindeer, thirty large mountain sheep, or big horn, two porcupines, two hundred and ten hares, one beaver, ten muskrats, twenty-four bustards, one handred and fifteen ducks, twenty-one pheasants, one will also take from thirty to fit five white the one snipe, one engle, one owl; add to this from thirty to fity-five white fish and twenty trout every day. Father DeSmet soon afterwards returned to the Western slope of the Rocky Mountains, whither we will not follow him.

We have thus exhibited the matural features of the great central district

soon to be brought into close commercial relation with Minnesota by the mivigation of these important rivers of the Northwest. We have rested our changes than the state of the Northwest. observations hitherto upon llatitude 55 deg., but the suggestions already attered in the Pritish Parliament, of an extension by canal to the mavigable tributaries of the McKenzie will warrant the consideration of a territorial division beyond that limit.

ATHABASCA.

The valleys of the Peace and Athabasca Rivers eastward of the Rocky Mountains from lattitude 55 deg., share the Pacific climate in a remarka-The Rocky Mountains are greatly reduced in breadth and mean elevation, and through the numerous passes between their lofty peaks, the winds of the Pacific reach the district in question. Hence it is that Sir Alexander McKensie, under the date of May 10th, mentions the exuberant perspectives of the whole country there where the blosson, and impfield country. verdure of the whole country—trees about to blossom, and buffalo tended by their young. During the late Parliamentary investigation, similar statements were elicited. Dr. Richards King, who accompanied an expedition in search of Sir John Ross, as "Surgeon and Naturalist," was asked what portion of the country rigital, he him were realizable for the remarks of artiflorest. the country visited by him was valuable for the purpose of settlement. In reply, he described "as a very fertile valley," a "square piece of country" bounded on the south by Cumberland Honse, and by the Athabasca Lake on the north. His words are as follows:

"The sources of the Athabasea and the sources of the Saskatchewan include an enormous area of country. It is, in fact, a vast piece of land surrounded by water. When I heard Dr. Livingston's description of that country, which he found in the interior of Africa within the Equator, it appears to the country which he found in the interior of Africa within the Equator, it appears to the country which I are now describing.

country, which he found in the interior of Africa within the Equator, it appeared to me to be precisely the kind of country which I am now describing.

* * It is a rich soil, interpersed with well wooded country, there being growth of every kind and the whole vegetable kingdom alive."

When asked concerning mineral productions, his reply was, "I do not know of any other mineral except linestone; limestone is apparent in all directions. * * The birch, the beech, and the maple are in abundance, and there is every sort of fruit." When questioned further, as to the growth of trees B. K ing replied by a comparison "with the magnificent trees round." of trees, Dr. King replied by a compurison, "with the magnificent trees round Kensington Park in London." He described a farm near Cumberland House under very successful cultivation--luxuriant wheat, potutoes, barley and domestic animals.

The committee will not extend by any generalization of their own, these geographical statements. They prefer, in conclusion, to dispose of the subjects of climate and population, in the impressive language of a writer in the

jects of climate and population, in the impressive language of a writer in the Knickerbocker Magazine for October, 1858.

"Here is the great fact of the North-Western areas of this continent. An area not interior in size to the whole United States east of the Mississippi, which is perfectly adapted to the fullest occupation by enlivated nations, yet is almost wholly unoccupied, lies west of the 98th meridian, and above the 43d parallel, that is north of the latitude of Milwankee, and west of the longi-

tude of Red River, Fort Kearney, and Corpus Christi; or to, state the fact in mother way, east of the Rocky Mountains, and west of the 98th meridian, in the state of the 18th meridian, in the 18th meridian in the 18th m in another way, east of the Kocky Mountains, and west of the 98th meridian, and between the 43d and 60th parallels, there is a productive cultivable area of 500,000 square miles. West of the Rocky Mountains and between the

same parallels, there is an area of 300,000 square miles. same parames, there is an area of SOURIO square mines.

"It is a great mistake to suppose that the temperature of the Atlantic coust is carried straight across the continent to the Pacific. The isothermals deleted greatly to the north, and the temperatures of the Northern Pacific are deleted in the high temperatures in latitudes of Marian. paralleled in the high temperatures in latitudes of Western and Central Euparameter in the high temperatures in latitudes of western and Ceptral Europe. The latitudes which inclose the plateaus of the Missouri and Saskatchewan, in Europe, inclose the rich central plains of the continent. The great grain growing districts of Russla lie between the 45th and 60th parallel, that is north of the latitude of Salat Paul Missouri are Europe. great grain growing districts of Russia lie between the 45th and 60th purallel, that is, north of the latitude of Saint Paul, Minnesota, or Eastport, Maine Indeed the temperature in some Instances, is higher for the same latitudes have than in Central Enrope. The isothermal of 70 deg. for the summer, which on our plateau ranges from along latitude 50 deg. to 52 deg., in Europe skirts through Vienna and Oldessa in about parallel 46 deg. The isothermal of 55 deg for the year rang along the coast of British Columbia, and rope starts through vienna and Oncessa in about paramet 40 deg. The soundaring of 55 deg. for the year raus along the cons. of British Columbia, and does not go far from New York, London, and Schustopol. Furthermore, dry press are not found above 47 deg., and there are no barren tracts of continuous partly of the Heal London and the Action of the Missouries to be leaded. dry areas are not found above 47 deg., and there are no barren tracts of consequence north of the Bad Lands and the Coteau of the Missouri; the land grows grain finely, and is well wooded. All the grains of the temperate districts are here produced abundantly. and Indian corn may be grown as high as the Suskatchewan.

high as the Suskatchewan.

"The buffulo winter as safely on the upper Athabasea as in the latitude of St. Paul, and the spring opens at nearly the same time along the immense of St. Paul, and the spring opens at nearly the same time along the immense line of plains from St. Paul to Mackenzie's river. To these facts, for which there is the authority of Blodgett's Treatise on the Climatology of the United States, may be added this, that to the region bordering the Northern Pacific, the finest maritime positions belong throughout its entire extent, and no part of the West of Europe exceeds it in the advantages of canable climate, fertile of the West of Europe execeds it in the advantages of equable climate, fertile soil, and commercial accessibility of coast. We have the same excellent authority for the statement that in every condition forming the basis of a national wealth, the continental mass lying westward and northward from Lake Superior is far more valuable than the interior in lower latitudes, of which Salt Lake and Upper New Mexico are the prominent known districts. In short its commercial and industrial capacity is gigantic. Its occupation was coeyal with the Spanish occupation of New Mexico and California. The Hudson Day Company has presented it as after wildows for more property. Bay Company has preserved it an utter wilderness for many long years. The Frazer River discoveries and emigration are facts which the Company cannot erush. Itself must go to the wall, and now the population of the great north

In review of the toregoing especially when considered in connection with the probable organization of the Province of Saskatchewan at the next seasion of the British Parliament, your Committee entertain great confidence son of the Druss Farnament, your Committee enertian great connacted that the announcement of a Steamboat upon Red River in June 1859, will arrest such a degree of interest that the travel and transportation of the next senson will be very considerable—probably ample to renumerate the enterprise while the inture increase will be fully equal to the extraordinary progress of steambout interest upon the Upper Misisissippi.

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e isothermals rn Pacific are I Central Euouri and Sasmtinent. The 60th parallel. stport, Maine. same latitudes or the summer, 52 deg., in Eneg. The isoth-Columbia, and Furthermore, n tracts of consouri; the land of the temperate ny be grown as

s in the latitude ong the immense hets, for which gy of the United Northern Pacific, tent, and no part ble climate, fertile ame excellent aubasis of a nationrd from Lake Sudes, of which Salt istricts. In short. apation was cocyal nia. The Hudson y long years. The e Company cannot of the great north

in connection with wan at the next ses. in great confidence in June 1859, will ortation of the next merate the enterprise ordinary progress of

APPENDIX "C."

Exploration of the Rocky Mountains in British America by Captain Palliser.

Extract from an Address of Sir Roderick I. Murchison, at the Anniversary Meeting of the Royal Geograpical Society, May 23d, 1859.

The important results of the exploring expedition under Captain J. Pulliser, as communicated by the Colonial Office, and as dwelt upon in awarding the Founder's Gold medal to that officer, have necessarily given great satisfaction to us, proceeding as they do from men who were expecially recommended for this public septical to the Machine Public Publ this public service to Her Majesty's Government by our Society as well as by

the Royal Seelety.

When Captain Palliser first proposed to make this exploration, one of the main points of interest to geographers was a survey of that part of the Rocky Mountains to the North of the United States boundary which separates the great tracts now named British Columbia from the eastern mass of British the Majesty's Covernment deemed it, however, of parthe great tracts now named British Columnia from the eastern mass of Dritish North America. Her Majesty's Government deemed it, however, of paramount importance that, in the first instance, the nature of the ground between Lakes Superior and Winnipeg should be accurately surveyed, in order to set at rest all questions of colonization as dependent on the possibility of making practicable routes of communication. For example, whether the Canadas with the Bod River Sattle. might be brought into profitable communication with the Red River Settlement. The remoter or more western explorations were destined to develop the true nature of the great prairie region, as watered by the North and South Saskatchewan rivers and their affluents. Collaterally, it was resolved, if possible—and mainly at the instance of this Society—to determine the elevation sof the Rocky Mountains in those parallels of latitude, and to point out the passes in them by which communication wheth the country and the true to the source of the source o the passes in them by which communication might be opened out between the vast country occupied by the Hudson Bay Company and the great British scaboard on the Pacific.

scaboard on the Pacific.

In the award of the Patron's Medal to Captain Pallier, allusions have been made to some of the principle results obtained by the researches of the expedition under his orders. But I should not do justice to the leader and his associates, nor to my own feelings, were I not to add a few words of explanation and comment. The first year's labors were necessarily for more importance to the Government than they could be to geographers and naturalists. The great object was to determine the capability of establishing an intercourse between the rocky region of Lakes Superior and Winnipeg on the east and the rich prairie countries on the west; and though astronomocal, physical, and magnetical observations of considerable importance were

made—these countries being to a great extent known before, and their outlines being monotonous—that portion of the survey created but slight interest

Not so when the Rocky Mountains, to which we had specially directed attention, came to be surveyed.* On proceeding from Fort Carlton, Palliser showed his good sense in approaching these mountains from the rich Ruffalo prairies midway between the North and South Saskatchewan. An experienced buffalo hunter himself, he knew that if his men were not well supplied, by no efforts, however well directed, could they succeed. Accordingly, having established a good base, and having secured abundant provisions at Slauter Creek, he divided his forces into three parties. Leading one of these himself across the Kamanaski Pass, and returning by the Kootanic Pass in north latitude 49½°, directing Capt. Blakiston to explore the still more southernly or boundary Pass, he sent Dr. Hector to traverse the chain by the Vermillion Pass, and to explore, as a geologist and naturalist, the much lofter mountains into which the chain rises in its trend to the N. N. W.—
This disvision of his forces well merited, therefore, the expressions used in the award which has been sanctioned by the Council.

award which has been sanctioned by the Council.

The marked success of the survey accomplished by my young friend Dr. Hector has been peculiarly gratifying to me, inasmuch as I had answered for the capacity be would exhibit in applying his scientific knowledge. Thus, in addition to the determination of latitude, flongitude, and the altitude of the mountains and two of their passes, Dr. Hector presents us with a sketch of the physical and geological structure of the chain, with its axis of slaty subcrystaline rock, overlaid by limestones of Devonian and Carboniferous age, and flanked on the castern face by Carboniferous and shaked on the castern face by Carboniferous and the constitute the subsoil of the vast and rich prairies retriary deposits which constitute the subsoil of the vast and rich prairies watered by the North and South Saskatchewan and their (affluents. His chegoryations on the erratic or drift phenomena are also curious and valuable.

observations on the erratic or drift phenomena are also curious and valuable.

Prevented by his instructions from descending into the valleys of Columbia, and there to ascertain practicable routes to the far west, which he will look out for during the present summer. Dr. Hector though so severely injured by the kick of a horse as to be incapacitated som moving for some days, contrived so to travel northwards as to round the base of the loftiest mountains of the chain before he retarned to his, winter quarters in October, after an absence of eighteen weeks from his chief, but laden with valuable geographical broughdry.

cal and geological knowledge.

In this survey he had the merit of showing that the Vermillion Pass—which is less than 5,000 [set high, and therefore 1,000 fect lower than any other known pass of the Kocky Mountains—had an other decided advantage over them, inasmuch as its western slope, from the summit level of the horse path is so little steep that its explorer had no doubt that even a road for carts may bethere established. The descents westward, or into the drainage of the Columbia, in the other passes, are exceedingly steep; and, according to Captain Blakiston, the Kootanie Pass can only have a railroad made along it by the formation of tunnils of severals miles in length, and by encountering the difficulty of the western gradient of 194 feet per mile.

difficulty of the western gradient of 194 feet per mile.

Another singular natural feature of comparison is, that whilst the Vermillion Pass is less than 5000 feet above the sea, the adjacent mountains on the north rise to near 16,000 feet, showing the great depth of the gorge.—

a Dr. Hector had by directions of his chief, made a successful foray in dog-sledges to the eastern edge of the Rocky Mountains during the winter, in which he procured men and horses.

e, and their out-t-slight interest

occially directed Carlton, Palliser the rich Ruffalo n. An experi-ot well supplied, ecordingly, havnt provisions at Kootanie Pass in ore the still more the chain by the the N. N. W. ssions used in the

young friend Dr. s I had answered nowledge. Thus, nd the altitude of us with a sketch its axis of slaty nd Carboniferous tone, representing, Cretaceous and and rich prairies ir taffluents. His ious and valuable. illeys of Columbia. which he will look so severely injured ng for some days, the loftiest mounin October, after an aluable geograpki-

Vermillion Passcet lower than any decided advantage it level of the horse ven a road for caris the drainage of the ccording to Captain ande along it by the

nat whilst the Ver-jacent mountains on oth of the gorge .-

ful foray in dog-sledges which he procured men

the other hand, in the range beyond the British boundary, to the south and where no peak (not even that of Fremont) exceeds 13,000 feet, the passes

Whether one of the heights called Mounts Brown † and Hooker by Mr. Douglas, in honor of our eminent botanical contemporaries, be still higher than the Mount Murchison of Palliser and Hector, it is certain that the chain than the Mount Murchison of Palliser and Heeter, it is certain that the chain diminishes rapidly in its trend from this lofty cluster to the north. We know, indeed that Mackenzie, the first great explorer of those regions, passed through the range in north latitude 56°, at a comparitively lower level. Again, we further know that in proceeding, borthwards these mountains dwindle into insignificance before they reach the Arctic Ocean.

It will be recollected that seven years ago Captain M. H. Synge of the Royal Engineers, who had been quartered in the Canadas, and had made exertsions into the adjacent western territories, being deeply imbued with the

consions into the adjacent western territories, being deeply inbued with the importance of the original observations of Mackenzie, and attracted by his glowing description, made a warm appeal in favor of the establishment of a line communication between the Atlantic and Pacific, by passing from Lake Athabasca and the Peace river, thence traversing the Rocky Mountains on the parallel followed by Mackenzie.

But that scheme must now, I apprehend give way before the shorter passages across the mountains in a more south an parallel, and which will it is hoped bring a rich prairie country on the newly diccovered gold region on the west, as well as with Vancouver Island,

ewiy discovered gold region on the west, as well as with vancouver Island,

* In anticipation of what may hereafter be published in the "Journal of the Royal
Geograpical Society," the reader is referred to the papers presented to Parliament in April,
relative to the "Exploration by Gaple, Ballier of that portion of British North America
which the northern branch of the River Asskatchewan and the frontier of the United States
and between the Red River and Ancety Mountains." These printed documents are accompanied by a map, executed the lessler and discress under his command, and tables giving the
calculations of an analysis of the Society and the positions of places were fixed. An additional paper and map on the southern part of the Rocky Mountains near the American
boundary repeared by Captain Blaksiston, who had quites the expliction, have very
recensible to looked upon as an official communication until sanctioned by Captain Failier.—
These last ment-found documents, which seem to me to be also ably prepared, have not yet
less last ment-found documents, which seem to me to be also ably prepared, have not yet
less last ment-found documents, which seem to me to be also ably prepared, have not yet
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less last ment-found documents, which seem to one to be also ably prepared, have not yet
less last ment-found documents of the United States and Hudson Bay
Territory."

I was recently informed by my friend, the Right Hon. Elward Elice, that the agreements

in which all the new discoveries are inserted. This map is entitled "The Province of British Columbia, Vancouver Island, with portions of the United States and Hudson Bay Territory."

I was recently informed by my friend, the Right Hon. Edward Ellice, that the geographical position of these passes was laid down many years age upon a MS, map, at the Instance of the Hudson Bay Company, by Mr. David Thompson. I have further learnt from Mr. Arrowmith, with whom he corresponded, that Mr. Thompson explored the vast regions of the Hudson Bay Company in all directions during twenty-eight years, and projected the construction of a general map of the country between Hudson Bay and Lake Superior on the east, and the Pacille on the west! It appears that the last six years of his labors were spent on file west side of the Rocky Mountains—it being important to note that his his maps were all made (from actual survey, corrected by unerurns astranomical observations. The largest adjunct of the Frazer river in British Columbia, "the Thompson," jurily wears the name of this great but little known geographical explorer; and I therefore that there is no fundation for a report which has been spread, that it is proposed to substitute some other appellation for the name of this meritorious man. Beginning his active members of the Morth America of homelar, 'Gommission, and was upwards of cithy years of age when the died in Canada. In the words of Mr. Arrowsmith, 'be has left no one behind him who is possessed of a tertification were wide to a substitute some of the proposed and the service of the survivers of the Hudson Bay Company whose direction were all the proposed and was upwards of cithy years of age when a proposed with the trivines of the Hudson Bay Company whose directions were all the proposed was substituted to not be been preserved instant, and the words of the survivers of the survivers of Indians have been so undeallist face; withis its dealing with a survive of the white man, as in other parts of the survivers of Indian

† Mount Brown is said to be 16,090 feet high.

the natural resources of which were brought before us by Colonel W. C. Grant. During the animated discussion which took place among us in the year 1851, Mr. Asa Whitney, of the United States, in proposing his gigantic plan of an inter-occanic railway, candidly told us that the best line of interpolar to the two oceans would be found within the British territorics, and the Palliser expedition has already gone far to demonstrate the truth and value of his suggestion.

and the Palliser expedition has already gone far to demonstrate the truth and value of his suggestion.

With a knowledge of the data acquired by the Palliser expedition, men of ardent minds contemplate the formation of a railroad, or if not of apractication which traverse the British Possessons only, shall connect the Atlantic rotues which traverse the British Possessons only, shall connect the Atlantic and Pacific Oceans. But when we reflect that the length of this line is above and Pacific Oceans. But when we reflect that the length of this line is above and traverse wild and unpeopled regions, we cannot rush to hasty conclusive to traverse wild and unpeopled regions, we cannot rush to hasty conclusions as to the practicability of such an enterprise. Neither ought we to desione as to the practicability of such an enterprise. Neither ought we to desione as to the practicability of such an enterprise. Neither ought we to desione as to the practicability of such an enterprise. Neither ought we to desione as to the practicability of such an enterprise which they must attain Vancouver Island shall have risen to that importance which they must attain as British Colonies. For, it is now ascertained, that the tract lying between the North and South Saskatchewan on the east is one of great fertility, where the North and South Saskatchewan on the cast is one of great fertility, where the North and South Saskatchewan on the cast is one of great fertility, where

na British Colonies. For, it is now ascertained, that the tract lying between the North and South Saskatchewan on the east is one of great fertifity, where no intense cold prevails, and that once thorugh the Rocky Monatains, the traveler enters a country of cedars and rich vegetation, in which even wheat traveler enters a country of cedars and rich vegetation, in which even wheat may be grown at heights exceeding 2,000 feet above the sea. In the men time we need, at all events, have no hesitation in assuming that the electric telegraph will, ere long, be at work across British North America. Believing it to be of the deepest geographical importance, that men who have distinguished themselves as Palliser and his associates, should not, through have distinguished themselves as Palliser and his associates, should not, through a misplaced economy, be held to their original instructions, and be forced to return homewards by retracing their steps from Fort Edmonton over the return homewards by retracing their steps from Fort Edmonton over the appreviously beaten tracts of North America and the United States, I have had previously beaten tracts of North America and the United States, I have had previously beaten tracts of North America and the United States, I have had previously beaten tracts of North America and the United States, I have had previously beaten tracts of North America and the United States, I have had previously beaten tracts of North America and the United States, I have had previously beaten tracts of North America and the United States, I have had previously beaten tracts of North America and the United States, I have had previously beaten tracts of North America and the United States, I have had previously beaten tracts of North America and the United States, I have had previously beaten tracts of North America and the United States, I have had previously beaten tracts of North America and the United States, I have had previously beaten tracts of North America and the United States, I have had pre

Colonel W. C. ong us in the ig his gigantic t line of intertish territories. the truth and

edition, men o i not of apractict the Atlantic his line is above on the east will to hasty concluought we to de-Columbia and they must attain et lying between t fertility, where Mountains, the hich even wheat he sea. In the ing that the elec-h America.

ce, that men who ould not, through and be forced to monton over the States, I have had of this expedition red to wend their the Rocky Moun-British Columbia, py to say that Sir d that the Palliser approbation.

APPENDIX "D."

Itineraries of routes from St. Paul to Pembina, Fort Garry, Fort Ellice and Edmonto'i House.

St. PAUL, Min., March 1st, 1860.

J. W. Taylor, Esq: S7a: In compliance with your request, I herewith submit to you copies of the most reliable itineraries of the various routes between St. Paul and Pembina on the Red River of the North; also of routes beyond the latter

place recently described by parties traveling overland to Frazer's Biver.

The following is a list of the "Tables of distances" farnished:

(A) 1st. From Saint Paul to Pembina, via Crow Wing and the "Woods road."

(B) 2d. From St. Paul to Pembina, via St. Cloud, White Bear Lake Graham.s Point, and the W. side of Red River.
(C) 3d. From St. Paul to Pembina, via portions of various routes.
(D) 4th. From Breckinridge to Pembina, by the channel of the Red River of the North.

(E) 5th. From Pembina to the Rocky Mountains, routes and portions of routes.

A few remarks are necessary as to the composition of the tables.

From St. Paul to the second crossing of Otter Tail River, the distances are given from the actual survey and location of the military roads, though the latter portion (from Wadena) of the "Fort Ripley and the Red River road" not being yet opened out, the road as at present traveled is necessarily somewhat longer (about 8 miles than the line given in the table. The State road from St. Cloud to Breckinridge, in like manner, is but partially constructed, the line as surveyed being at least 18 miles shorter than that (the traveled road) given: the shortness of notice has prevented me from procuring and inserting said surveyed length with exactness.

From the second crossing 3. Otter Tail river to Pembina, also from Saint

From the second crossing 3. Otter Tail river to Pembina, also from Saint Cloud (via White Bear Lake and Graham's Point) to Pembina, the distances are taken from the odometer measurements of various expeditions, but as in their details they offer many discrepancies, I have thought it best to include them all, so that the observations of future travelers may decide

upon their relative value.

The portions of other land routes are but estimated, and, of course, not strictly reliable.

The routes beyond Pembina are mostly from odometer measurements.

Along the channel of the Red River of the North the distances are ascertained with comparative enactness from Brecklaridge to the month of Buffalo river, the forwardness of the U.S. Land Surveys in the Red River valley admiting of it; but from Buffalo river to Pembina, Captain Pope's table of

distances has been used. Capt. Pope estimates this latter portion of the rivers as 248 miles in length, but when it is correctly known, by survey, i do not think it will be found to exceed 230 miles, making the actual distance by water from Breckinridge to Pembina about 370 miles. Maj. S. H. Long, in 1823, stated the distance from the mouth of Red Lake to Pembina to be 130 miles.

The following summary exhibits the relative lengths of the detailed routes between St. Paul and Pembina.

STATEMENT OF TOTAL DISTANCES.

the detours spoken of above.)

	(Omitting the detours spoken of above.)	Miles
	(Omitting the delours spines	
		424
	Via Crow Wing and Detroit Lake Saint Cloud, Alexandria, Dayton, and the "forks of trail," say, Saint Cloud, Richmond, White Bear Lake, Elbow Take, Day-	420
	Wing and Detroit that and the forks of train, Say,	
1st.	Via Cloud Alexandria, Dayton, and Lake Elbow Lake, Day.	445
2d.	Saint Cloud, Pichmond, White Bear Lake, 17	.1.10
3d.	Via Crow Wing and Detroit and the "forks of talk, Saint Cloud, Alexandria, Dayton, and the "forks of talke, Day-Saint Cloud, Richmond, White Bear Lake, Elbow Lake, Day-Saint Cloud, Richmond, White Bear Lake, Elbow Lake, Day-Lake, Graham's Point	
0111	ton, and the "lorks, State Bear Lake, Granam's	464
	Saint Cloud, Riemmond, white Bear Lake, Graham's Point St. Cloud, Riehmond, White Bear Lake, Graham's Point St. Cloud, Riehmond, through Dakota Territory, (about), and the road through Dakota Territory, Point, Dishmond, White Take, Graham's Point,	
4tb.	be Graham's Point,	600
	St. Cloud, Richmond, through Dakota Territory, (about), and the road through Dakota Territory, St. Cloud, Richmond, White St. Cloud, Richmond, Richmond	590
5th,	St. Cloud, Michael St. Cloud, Mi	990
	St. Cloud, Richmond, (about), and the river St. Cloud, Alexandria, D. 1. St. Cloud, St. C	
c.l.	St Cloud, Alexandria, 1	525
6th.		
7th.	St. Cloudy	
	the river, say, I, am, sir, very respecting and ALPRED J. Hills.	
	Tour obedient Strain in 1111de	
	All Rail J. Hills.	

Table of distances from Saint Paul to Fembina -- Crow Wing or Woods Road.

1. ST. PAUL TO LAKE FLOYD. United States Military Road Surveys, 1857.

FROM ST. PAUL, (FULLER HOUSE) TO	Miles.	Tota
to the Dallah	9	9.
St. Anthony (opposite the Pans)	71/2	161
Manonin	10	26
Anoka (east of Rum river)	61/2	33
Itasen	7	40
Humboldt (Big Lake)	81.	48
Marseilles (Bear Island)		57
Marseilles (Bear Island)	4	61
		65
Clear Lake East St. Cloud (Brantford Post Office)	9	74
East St. Cloud (Brantiord Post Office)	3	77
East St. Cloud (Brantiord Test Once) Sauk Rapids Wutab	51/2	83
Witab	1213	95
Wutab Langola Swan River	10	105
Swan River.	3	108
Swan River		1114
Belle Prairie	81.	12:
Belle Prairie. Olmsted's(amounts Wort Ripley)		12:
		130
Crow Wing	44.	13
Crow Wing. Chippewa Agency at Gull River.	1213	14
Opposite mouth of Long Prairie river.	5	115
Chippewa Agency at Guil Inver- Opposite mouth of Long Prairie river Commencement of Grand Marais—end of built road	814	16
		16
Crossing of Wing river	1212	18
		18
Ct		119
Outlet of Leaf Lake		19
Leaf City	51,	
		20
First crossing of Otter Tail river (Rush Lake)		1
1 41 41 41		21
Second " end of surve	year time 10	
Third crossing of Otter Tail river.	dometer 416 easure- 1012	3
		2
Lake Floyd (Eagle's Nest Lake	ments. 6	٠٠٠ ا

.

ot the rivery, i do not distance by H. Long, in no to be 130

tailed routes

Miles 424 7 say, Day-445 Point 464

Point, 600 ver say, 590

525

HAL

11. LAKE FLOYO TO PEMBINA.

Col. Nobles. 1859.

FROM LAKE FLOYD TO	Miles.	Total.
Photo mark to the state of the	21.	2411.
North end of small lake to left of road	534	24634
*** 1 -11-1-0 to lolt	7 -8	252
		26013
		272
		277
		282
Crossing of Wild Rice creek, 15 feet wide, 1 foot deep	192	3013
		3073
		3091
Crossing of Sand 1111 creek, (12 feet). Bad marshes	113	32113
		3243
Small creek, water in holes	41.	3291
		3401
		345
		3571
		3613.
Coulce	1 5	3681
Crossing of Snake river. Crossing of Middle river, 20 feet wide, 6 inches deep	1 6	3741
Crossing of Pine river, 15 leet wide, I loot deep	1 4	3781
Bend of Pine river.	61.	385
		4001
Small creek. Big Point.	61.	
South fork of Two Rivers	5	4111
Mouth of Two Rivers	1 - 2 / 12	,

III. RED LAKE RIVER TO PEMBINA.

Col. F. L. Smith. 1856.

FROM ST. PAUL TO.		Total.	•
Red river Small lake Middle river Tamarae river (R. aux Epinces) Small stream South branch of Two Rivers North branch of Two Rivers Lae du Nord Ouest Pembina, west side of Red river	11	3471 ₄ 3643 ₄ 3683 ₄ 3851 ₄ 3961 ₄	
Collibilia, west side of treatment			

Table of Distances from St. Paul to Pembran - Plane Trail

1. POUTE OF MAJ. $\overline{\text{WOODS}}$ AND CAPT, POPE,

June and July, 1819.

FROM ST. PAUL TO	Miles.	Total.
Crossing at Sank Rapids	16	78½ 943
Crossing at Sank Kapitas	5	991
		1133
Crossing of Sauk river (Greinfield) David Lake (now Henry lake)	1 -	1201
		1283
Lake Henrie (now rate George)	111	1391
		1531
		1661
White Bear Lake	111	1771
Main branch of Chippewa river	2	1792
Pike Lake. Main branch of Chippewa river Ellk Lake. Tipsina, or Pomme de Terre river.	- 5	184
Tipsing, or Pomme de Terre river	10	1941
Elbow Lake	14	198
Tipsina, or Pointine de Terre (1807) Elbow Lake Rabbit River (west branch of Pointine de Terre river)	20	2181
Crossing of Otter Tail river	22	240
		254
		265
the common witter		282
PM and a mitton		300 !
The transfer of the state of th		310
11	- " 3	326
Point of ridge		3331
		342
South branch of Goose river		3501
14 14 Tulana	- 3	361
se the selections must be a second of the se	1 173	3633
Crossing of Goose river		381
23		401
		110
Fixela Walt misron		1223
rint fill wissen		125
Count mission (P. do la Chaurette)	2 3	127
Otoon Hill nivon	} -	130
		437
M. I wisser and commoncement Popular Islands.	! '	453
Duomah of Pongue river		463
Mouth of Pembina river	1 xes	12000

2411,2 246,3 252 260),3 272 277 282 301,3 303,4 321,3 321,3 321,3 321,3 340,4 345,3 357,4 361,2 374,1 385,4 400,4 411,2

Miles. Total.

Miles.

H. ROUTE OF ELLIS SMITH AND PARTY

August, 1858.

FROM ST. PAUL TO	Miles.	Total.
FROM 61. 1 200		74.52
Crossing at St. Cloud, say Sank river bridge.	6.83	81.33
Sank river bridge. St. Joseph.	4.94	86.27
St. Joseph	9.88	96.15
Cold Shring	1 23.43 1	101.72
St. Joseph. Cold Spring. Sauk river ferry, Richmond. Lake Henry. Lake George.	15.80	117.52
Lore Helly	1 0.00 1	123.18
Lake George Crossing of Crow river	10.27	133.45
Crossing of Clow Hitches	110.40	143.85
Grove Lake	1 0.25	149.08
Grove Lake. Chippewa river.	6.11	155.19
Chippewa river White Bear Lake	17.52	172.71
White Bear Lake	.84	173.55
lake	1.11	180.66
Lake Rapid river (main branch of Chippewa)	8.07	188.73
Lake I Pomme de Terre lake	1 1.51	190.14
Pomme de Terre river	9.22	199.36
Lake LEIDOW BIKCL	5.52	204.88
		220.30
Crossing of Otter Int	122.90	243.20
Crossing Red river [near Graham's Political	11.39	254.59
Crossing of Wild Ivice Hiel, west	114.83	269.41
Crossing Red river [near Graham's Point. Crossing of Wild Rice river, west—bridged. Crossing of Shayenne river—bridged. Crossing of Maple river. Crossing of Rush river [creck only].	18.49	287.90
Crossing Ol Whill IIVCI	1 2 1	195.51
Crossing of Rush river [ereck only] Bed of stream, water in pools, [Rush river].	9.72	305.23
		318.87
		342.49
Hemlock river, [main branch Elm river]	5.07	347.56
1 toose river, isouth the	11.60	359.35
Gironn 20 leet Wide	1 3 94	365.32
Stream, 20 feet wide. [Goose river, main branch]	4.61	369.93
		387.82
Stream, 20 feet wide, [Goose river, main branen] Lake Turtle river	4.97	392.29
Stream	32.98	425.27
Salt river, [Little Hill river] bridged.	25.02	450.29
Turtle river Stream Salt river, [Little Hill river] bridged Water in marshes Crossing of Pembina river [ferry] Pembina.	115.30	465.59
Crossing of Pembina river [lerry] I chiomat		

Table of distances of portions of various routes between St. Paul and Pembino.

I. SAUK RAPIDS TO SIOUX WOOD RIVER.

iles. Total.

83 81.33 94 86.27 80 117.52 80 117.52 80 117.52 80 117.52 80 117.52 117.52 133.45 40 143.85 123 148.08 111 155.19 172.71 180.66 184 173.55 1.11 180.66 307 188.73 1.51 190.14 1.52 204.86 1.55,42 220.30 2.20.30 2.20.30 2.20.30 2.20.30 2.20.30 2.30 138.87 2.30 254.59 4.82 269.41 1.95.51 1.95.51 1.95.52 1.305.23 305.23 305.23 347.56 1.79 359.35 5.97 365.32 4.97 392.29 32.98 425.27 24.97 392.29 32.98 425.27 255.02 450.29 4.97 392.29 32.98 425.27 255.02 450.29 4.97 392.29 32.98 425.27 255.02 465.59

Gov.	Stevens'	Expedition.	June,	1800.

the state of the s		1
FROM SAUK RAPIDS TO	Miles.	Total.
FROM BACK MALLEY TO	10	1 18
Al standard topole	, 18.	10
out Spring Grook.	6	- 24
auk river ford [Kichmond]	1916	431.
ake Henry	10	521
old Spring brook. auk river ford [Richmond]	03/	- 621
Brauch of Crow river, 20 feet wide	3/4	0374
agriculty takes [Ortore takes]	614	68! 73!
franch of Chippewa river, 30 lect wide	. 5	731
Vhite Bear lake	1014	84
ributary of Sonth branch, 15 feet wide.	1 7 1 21	871
lmiff brook 6 feet wide	201 10	901
Vhite Bear lake. 'ributary of Sonth branch, 15 feet wide. with brook, 6 feet wide. 'ke lake. 'ke lake.	174	891
ike lake hippewa river, 124 feet wide	10%	99)
Chippewa river, 124 feet wide	17 7 1	100
Chippews river, 124 feet wide.	7:18	4
West branch of Chippewa river, [Ponnne de Perre] 140 fe	1 M. 40	1081
With a second of the second of	18	1003
West branch of Chippewa river, Pronume de Perre 13 Wik Wiki Wiki Wiki Wiki Wiki Wiki Wiki	91	117
Elbow take	. 6	1 1234
Rabbit river, west branch of Tipsina	1000	1283
Elbow lake. Rabbit river, [west branch of Tipsina] Small brook, 12 feet wide. Small brook [tributary of Rabbit river]	113	140
Small brook Itributary of Rabbit river	117	
		1 100
THE PROPERTY OF CHAPTER SHORT XHORE SO SION	1:	
1 1910 (11 (<u>11 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -</u>		

II. ST. CLOUD TO GEORGETOWN.

Stage and Mail Route-Tuble prepared by Mr. B. C. Borden. 1859.

FROM ST. CLOU	up ro	Miles.	Total.
	feciele e	15001 64 11 7	7
St. Joseph	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10	17"
Cold Spring		41/6	21!
St. Joseph		191/2	
Oak Chara			58
Saule Contra / '	22 de . 6 . b V . h		.60
Kandotto	1 d	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	70
			82
Alexandria.	************	22	104
Evansville	VON HVV	27	131
Evansville. Dayton [Wascata P. O.] Breckinridge.		1 21	155
Brockingidge		24	167
Graham's Point			
		20	193
Burlington,	, p.	y land. 20	213
Shayenne,	(.	4	217
Georgetown,	•	•	

5

III. 8T. CLOUD, VIA SIOUX WOOD RIVER TO GOOSE RIVER. Col. C. F. Smith, August, 1856.

PROMERY, CLOUD TO	Miles.	Total.
	3	3
First crossing of Sauk river	14	17
Cold Water creek. Second crossing of Sauk river [Richusons]	5	22
Second crossing of Bank river [Estendants]	18	40
		55
lake McLood [Grove lake] Broke Base lake which		
Lake Henry. Lake McLeod [Grove lake] Branch of Chippewa river, beyond White Bear lake, which passed to left	18%	735
page 10 Miles	18 18	78
Pipe lake	18	96
Tipeine, or Pomme de Terre river	11	109
Elsow lake		1193
Rabbit river. Beis des Sieux river, about 4 miles from month	173%	137
Bois des Stoux river, about 4 miles from mount	1736	154
Greham's Point		
Wild Rice river, west		
Shayenne river		1883
Maple river	31/	1913 1983
Crossing of Maple river	7	1983
Creek emptying into Maple river		2143
Rush river. Small branch of Elm river.		229
South branch of Goose river, here left road.		
South Drabon of Goods river, here left road.	.,/3	

LAKE TO GEORGETOWN.

IV. DETROIT DAKE TO GROWS TO	
By Bar: Borden.	r.a.
Estimated	, 00
W. 10 + 18 1	
Elbow lake to Wascata, about	98
vi.	•

From the Upper Sieux Agency (Yellow Medicine) on the Minnesota river, to Breckinridge, the distance, by the land route, is at least... 125

VII. RAILROAD LINES.

VII. HAILROAD LINES.

1st. The length of the "branch" line of the Minnesota and Pacific Railroad from St. Paul to St. Vincent, as far as surveyed and located to Crow Wing, is about 125 miles.

2d. The length of the main line of the same railroad, as surveyed and located to a point on the Sioux Wood river within 8 miles of Breckinridge, is about 207 miles.

Breckinrulge to Pembina, by the Channel of the Red River of the North,

FRO	M BRECKINRIDGE (Mouth of Sloux Wood River,) TO	Miles.	Total.
Cromina	g of Trail	111/2	111/2
Graham	's Point	3%	17
	bercromble	634	2314
Month	of Wild Rice River west, (Psihu river)	521/4	76
44	Shayenne river	41%	1173%
Village	of Lalayettee	1 3/4	118%
11	Shapeone	236	121
Mouth	of Refelo river (Georgetown)	734	1281
11	Ein river	40 14	1533
66	Wild Rice river east	044	160
44	Goose river	22)	18214
16	R. an Marais No. 5, (from Pembine, Sand Hill	28%	1831/4
64	Sand Hill river, (River au Marais)	281	2063
**	Coulee des Vaches	3%	21273
44	Coules de la Butte de Sable		2183%
44	Coulee du Nez Rouge	43/	218
64	Riviere au Marais No. 4		22634
44	Coulee du Jenne Bauf		2291/4
44	La Grand Coulee	3	2321/4
44	Coon Creek	7%	240
44	Red Lake River (La Grand Fouch)	4	244
**	Confee de L'Anglais	44	248
166	Reviere au Marais, No. 3	7.7	256 26714
44	Turtle river		40174
44	Reviere au Marais, No. 2		294
64	Salt river	3)	2983
44	Reviere au Marais, No. 1	. 13	311%
61	Park river		
44	Reviere aux Epines		
46	Coulee du Bois Percee		
**	Black river		
**	Two rivers.	1	363
44	Pembina river	. 127	21 376

OSE RIVER.

......5£

e Minnesota s at least... 125

and Pacific Raillocated to Crow

l, as surveyed and of Breckinridge,

Routes and portions of Routes to the North and Northwest of Pembina.

1. PEMBINA TO THE FOOT OF THE MOUNTAINS.

W, E. Smith and G. C. Burnham. 1858.

W, E. Smith thirt G. C. Burners	Miles.	Total.
ort Garry	70.23	70.23
	281 29	301.02
ort Garry	166 47	A70.99
ort Fille Fort. W. N. W. confec.	129.84	600.35
Fort Carry. Fort Ellice, ascending the Assiniboine: Couchwood Hills Fort, W. N. W. contsc. South Branch of the Saskatchewan do	54.88	655.21
South Branch of the Saskatchewan do North Branch of the Saskatchewan do North Branch of the Saskatchewan do North Branch of the Saskatchewan do do North Branch of the Saskatchewan do	A 4 60 . 1	
North Branch about a day and a hairs journey	105.10	760.31
Crossing the little to Jack Fish Lake, (per Odomecet.)	70.00	830.31
West of Datiton	180.00	1,010
Fort Pitt, estimated	180.00	1,190
Edmonton, the Mountains, estimated.	11	
The took of the Mountain	11 1 10	
(1) .lem - (2, 4)	or in 1	T.
Fouch wood This Saskatchewan do	OBEL	11.
II.E PEMBINA TO FORT	1111	
Col. W. H. Nobles. 1852.	15 11 1 At	
Col: W. H. Nobles: 1859; PROM PEMBINA TO S. O. ALTERNAL	1	Total
THE TANK TO S OF SHAREM IS	MILM	Total
PROM PENDINA TO	31	V
by the south trail	24	2
St. Joseph, by the north trail.	142	,
The Dak Village, about	61	,
St. Joseph to Fort Ellice, about:	1 11 11	238
Oak Village to Fort Ellice, about	54447	1
I Hole Pirece	10011	
26.2 26.2 26.2	TO DO	1
DEMRINA TO THE KOOTONAIS	MUTH	1
St. Joseph, by the south trail. St. Joseph to Oak Village, about. Oak Village to Fort Ellice, about. Whole distance to Fort Ellice, about. PEMBINA TO THE KOOTONAIS. Dr. A. J. Thibodo. 1859, TWIT	Billiam	,
Dr. A. J. Thibodo. 1859.		
	MI	es. Tota
FROM PEMBINA TO	-00	30
Carry)	30	6 45
Fort Ellice, (via Fort Garty).	12	6 5
Fort Ellice, (via Fort Garry). Fort Qu Appelle. The elbow of the Saskatchewan. The control of the Kootonais Pass.	14	6 1,1
The elbow of the Saskatchewan. The entrance of the Kootonais Pass. Kootonaiss Fort.		

IV. PEMBINA TO MOUTH OF RED RIVER, by water.

	Miles.	
Fort Garry (coffinence of the Assiniboine) estimated	100 43	143

Pembina.

INS.

Miles. 70.23 70.23 281.29 301.52 169.47 470.99 129.84 600.33 54.88 655.21

760.31 105.10 760.31 70.00 830.31 180.00 1,010 180.00 1,190

OSEPH.

Total. Milie. 61 238

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ER, by water.

	Miles.	Total.
• • •	100 43	143

APPENDIX "E."

Increased production of cultivated plants near the northernmost limit of their growth.

Extracts from an article upon the "Acclimating Principle of Plants" in the American Journal of Geology, by Dr. Forry.

The cultivated plants yield the greatest products near the northernmost limit

In which they will grow.

I have been forcibly impressed with this fact, from observing the productions of the various plants, which are cultivated for food or clothing in the United States. The following instances will go far to establish the principle,

The cotton, which is a tropical plant, yields the best and surest product in the temperate latitudes. The southern parts of the United States have taken the cotton market from the East and West Indias, both as regards quantity and quality. This is partly owing to the prevalence of insects within the tropics, but principally to the forcing nature of a vertical sun. Such a degree of heat developes the plant too rapidly—runs into wood and foliage, which become injuriously luxuriant; the consequence is, there are but few seed pods, and these are covered with a thin harsh coat of wool, like the fur of animals is perhaps designed for protection; and will be thick and fine of animals, is perhaps designed for protection; and will be thick and fine in proportion as the climate is warm and cool. Another reason is to be found in the providence of the Deity, who aims to preserve races rather than indivindals, and multiplies the seeds and eyes of plants, exactly as there is danger of their being destroyed by the severity of the climate, or other causes. When, therefore, the cares and labors of man counteract the destructive tendency of the climate and garagest their reconstructive the destructive tendency of the climate and garagest their reconstructive the dency of the climate and guaranty their preservation, they are, of course, more available and abundant.

more available and abundant.

The lint plants, flax, hemp, &c., are cultivated through a great extent of initiate, but their bark, in the southern climates, is harsh and brittle. 'A warm climate forces these plants so rapidly into maturity, that the lint does not acquire either consistency or tenacity. We must go far north in Europe, even to the Baltic, to find these plants in perfection, and their products very merchantable. Ireland is rather an exception as to latitude; but the influence of the sun is so effectually counteracted there by moisture and exposure to the sea air, that it is always cool; hence the flax and potato arrive at such perfection in that region.

It holds equally true in the farinaceous plants. Rice is a tropical plant; yet Carolina and Georgia grow the finest in the world; heavier grained, better illed, and more merchantable, than any imported into Europe from the Indies. The inhabitants of the East Indies derive their substance almost exclusively from rice; they must be supposed, therefore, to cultivate it with all skill and

from rice; they must be supposed, therefore, to cultivate it. with all skill and care, and the best contrivances for irrigation. Such is, however, the forcing

nature of their climate, that the plant grows too rapidly, and dries away before the grain be properly filled. Indian corn, or maize, if not a tropical plant, was originally found near the tropics; and though it now occupies a plant, was eriginally found near the tropies; and though it now occupies a wide range, it produces the heavest crops near the northern limit of its range. In the West Indies it rises thirty feet in height; but with all that gigantic size, it produces only a few grains on the bottom of a spongy cob, and is counted on only a a rough provender. In the southern part of the United States, it reaches a height of lifteen feet, and will produce thirty bushels to the acre; in the rich lands of Kentucky and the Middle States, it produces fifty or sixty bushels to the acre but in New York and New England, agricultural societies have actually awarded premiums for one huncred and fifty bushels to the acre, collected from stalks only seven feet high. The heats of a Southern can develope the juices of this plant too quickly. They run into culm and blade, to the neglect of the seed, and dry away before fructific percent, complete. cution become complete.

Wheat is almore certain crop in New York, the northern part of Pennsylvania, and Ohio, and in the Baltic regions of Europe, than in the south either of Enrope or America. In the north, snows accumulate, and not only protect it from the winter colds, but from the weevil, Hessian fly, and other in-sects that invade it; and in the spring it is not forced too rapidity into head, without time to mature fully, and concoct its ferina.

A cold climate also aids the manufacturing of flour, preserving it from a cidity, and enables us to keep it long, either for a good market, or to meet scarcities and emergencies. Oats grow in almost every country; but it is in northern regions only, or very moist or elevated tracts, that they fill with farina scitable for buman sustenance. Rye, barley, buckwheat, millet, and other culmiferous plants, might be addined to illustrate the above principle; for all their habits rquire a more northern latitude than is necessary to their

The grasses are proverbially in perfection only in northern and cool regions, although they will grow everywhere. It is in the north alone that we raise animals from meadows, and are enabled to keep them fat, and in good condition, from hay and grass alone, without grain. It is there the grasses acquire a succulence and consistency enough not only to mature assess about to make the richest butter and cheese, that contribute so much to the tables of the lux rious. The grasses which we do, often, in the south, grow large enough, are without richness and nutriment; in hay, they have no substance; and when green are too washy to fatter a namals; the consequence is, must animals in those latitudes browse from ne sessity, and are poor and without size or beauty. It is the same hot sun which forces them to a rapid fructification, herne they have had time to concoct their juices. The sugar cane produces, perhaps, better where it never seeds, than in tropics; for the juices will never ripen so as tolgranulate, until checked by frost or fructification. In the tropics, the case grows twenty months before the juices ripen; and then the culm has contracted a woody, fibrous quality, to such a degree as to resist the presure of the mills, and yields but little juice, and that to an increased effort. In Louisania we su need well with the sugar anture; because, while the culm is succulent and tender, a white frost cheeks the growth, ripens the juices and in five months gives us a culm, tender, full of juice eary to press, the visiding much grain of sugar. When Louisians, therefore, acquires all the necessary skill, she will most probably grow this article cheaper than the West Indies.

Tobacco is a southern plant but there it is always light and chaffy; and although often well flavored, it never gains that strong narcotic quality which nd dries away
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n and cool regions, lone that we raise and in good condithe grasses acquire much to the tables south, grow large have no substance; prequence is, mest or and without size rapid fructification, igar cane produces, he juices will never tion. In the tropics, and then the culm as to resist the presincreased effort. use, while the culm ripens the juices and o press, the visiding , acquires all the le cheaper than the

ght and chaffy; and reotic quality which is its only peculiar property, unless you grow it as far north as Virginia. In the south, the heat unfolds its bud or germ too soon, forces into full expansion the leaf, and drives it to seed before the narcotic quality can be properly elaborated. We may assert a general rule applicable to all annual plants, that neither the root nor the leaf acquires any further size or substance after fructification.

The tuberose, bulbous, and other roots, cultivated for human and animal subsistence, are similarly affected by climate, and manifest habits in corrboration of the above principle. The Irish potato, although from or near the tropics, will not come into perfection but in northern or cool countries, or in moist, insular situations, as Ireland. It is in such climate alone, that tsi roots acquire a farinaceous consistence, and have size, flavor, and nutriment enough to support, in the eminent way in which they are susceptible, animal life. In the south a forcing sun brings the potato to fractification before the roots have had time to attain their proper size, or ripen into proper qualities for nourishment. In Ireland the plant grows slow, through a long and cool season, giving time for its juices to be elaborated and properly diges at hence that fine farina and flavor which characterizes them. The sweet potato produces larger, better flavored, and more numerous roots in California, where it never flowers, than in the West Indies. In the latter places this plant runs wild, covers the whole face of the earth with its vines, and is so taken up with making foliage, that the root becomes neglected, and is small and up with making foliage, that the root becomes neglected, and is small and woody. In order to have the onion in perfection, it must grow through two years, swelling all the time its bulbs. In the south however, it seeds in one pear, and before it has made much baib. Beets, carrots, parsnips, turnips, radishes, and other roots, are equally affected by a hot sun, and scarcely worth cultivating fur to the south. They all fructify before they have formed perfect roots, and make foliage at the expense of their baibs; hence they will always be articles of commerce; the south will have to depend upon the north for them.

they will always be articles of connerce; the sound will have so depend the north for them.

The salad plants are in like manner affected by climate, and give further proofs of our assumption. Cabbages, lettuces endive, cellery, spinage, plants whose leaves are only to cat, to protect their leaves from cold (through a kind of instinct.) wrap them up in leaves, which form he is and render many of their other parts tender and crisp for use. These leaves, thus protected, are not only tender, but more nutritious, because their growth has, been slow and their juices well digested. In the south a relaxing sun lays open the very bads of such plants, gives a toughness and thinness to the leaves, and they are too unsubstantial for unimal support, because of such quick and rapid developement.

ment.

The delicious and pulpy fruits are, in a still more striking way, illustrative of our principle. The peach, nectarine, plum, apple, cherry, current, gooseberry, apricot, and many other such families, are not in perfection in the south. It is in Pennylvanta, Virginie, Maryland, Jersey and in the north of Europe that we cajoy them, although originally they came from mear the tropics.—
The peach of the Carolinas is full or larvæ, gum and knots, and too stringy and forced to be juicy and flavored. The apple of the south is too acerb ty be either caten or preserved. The plums, a ricota, cherries, currants, gooseberries, &c., will not even mature until wego far north. All the trees which bear these delicious fruits will grow luxuriantly in the south, make much foliage and wood, but with little pulp, and that unsavory. The kernel in the one-seeder fruit seems to be the first object of nature in southern climes; that becomes strong, oily, and chlarged; and one of the peach family has so entirely neglected the pulp, that it has only a husky matter around the kernel,

as the almond. The changeableness of the weather in south, in the spring season, throws plants off their guard: the frost attendant on those changes destroy the young fruit; and it is only one year in three that the crop this at all. The desiccated or dried state of these fruits enables us to cajoy them through the year; but in the south their acidity carries them into fermentation or decomposition before they can be divested of their aqueous parts.— The climate of the south is equally against converting them into cider, or any other fermented liquor, because that the heat forces their compressed juice so rapidly into active fermentation, that it cannot easily be checked until it passes into vinegar. For the same reason distillation goes on badly in hot climates, and cannot be checked long at the proper point to give much alco-hol: and whether we aim to enjoy the delicions freshness of these fruits themselves, sin the nectatin of their juices, refresh ourselves with their fermented beverage, stimulate our hearts with their brandles and cordials, or feast through the winter upon the dried or preserved stores of their fruits, we are continually balked by the severity of a southern climate, and for such

enjoyment must look to the north.

The melons are always affected by too great a degree of heat, even though their vines flourish so much in southern latitudes. The forcing sun hurries. them on to maturity before they have attained much size, or acquired that rich saccharine and aromantic flavor for which they are so much esteemed. The cantelope-melou will rot or have its size and by a hot san, before it is fully cantelope-meion will rot or nave its appearance by a not sain, nearest its any formed; and the water-melon is always a roy, dry, and devoid of its peculiar sweetness and richness in the south. Vines have been known to run one hundred feet, and bear no melon. It is in Philadelphia and its neighborhood, and in similar latitudes that the markets are loaded with 'delicious melons of all sorts, whose flavor so must refresh and delight us. It is there, near the north-

ern limit, that we cultivate them with such uniform success. ern limit, that we cultivate them with such uniform success.

The orange, strictly a tropical plant, is more intex, large and delicious at St. Angustine (Floridia.) than at Havana; and fruiterers, in order to recommend an orange will say that it is from some place out of the tropics. In the West Indies, the pulp of the orange is spungy, badly filed with juice, and has too much of a forced flavor to be pleasant. The hot-house forcers of Europe, or at Rome, ancientyfat first produced had fruit; too dry, too small and without flavor; because they overacted. They have Intely found out that fact, and now the productions of the hot-houses of London, Paris, &c., astonish and delight us with the quantity and excellence of the fruit. They have found out that gradual and uniform heat is the desideratum; countervailing the cold rather than imparting much heat. Fruit thus produced is pronounced better than any grown in the natural way, however perfect the climate.

The juices of the grape are best matured for some near the northern limit of their growth. On the Rhine, in Hungary, the description of the Alps, and in other elevated or northern situations, the wine is the region of the Alps, and most esteemed. The French wines rank before the Spansie and Italian; and in no southern country of Europe or Africa, except Madein. Acre elevation make the difference, is the wine in much repute. The grapes of France are more delicious for the table than those of Spain or Madeira. In the northern part of the United States, the excess of heat and moisture blights the grape part of the United States, the excess of near and mousture ongoing to much an extent that all attempts have failed in its cultivation. The grape, vine, however whether wild or cultivated grows there very luxuriantly. The vinous fermentation can also be best conducted in a climate comparitavely cool; and all the pressing, fermenting and distillation of the juice of this delicate fruit can be safer and more profitably managed in a mild region.

The olive, and other oleaginous plants, yield more fruit, of a richer flavor.

in the spring those changes the crop hits to enjoy them into fermentaucous parts .o cider, or any ressed juice so hecked until it in badly in hot ive much alcoof these fruits with their ferof their fruits,

at, even though equired that rich esteemed. The before it is fully old of its peculiar a to run one hun-eighborhood, und ious melons of all e, near the north-

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r tpe northern limit t the Alps, and in italian; and in no nere elevation make pe of France are ra. In the northern re blights the grape ivation. The grape, ry luxuriantly. The imate comparitavely of the inice of this of the juice of this in a mild region. it, of a richer flavor.

and can be better pressed, and the oil preserved, in a mild climate. In France the tree is healther, and the fruit and oil better than in Spuin or Italy; and the Barbary States are known to import, their oil from France and Italy.

Many other plants might be named, whose habits would equally support our position. It is presumed, however, that enough have been cited to call the attention of philosophy to this curious subject, and enable us to give proper attention to it, in all the practical operations of Agricultural pursuit. Much time and expense might be saved, and profits realized, if this were more generally understood.

we have already observed that the heat of the sun in southern climes forces plants to a salse maturity, runs them on too rapidly to fractification, and renders dry and woody the culms, stalks and leaves of the plants, where these parts are used. Hence the chaffness of the leaf, the dryness of the cult. the lightness of the grain, and the unsavory, spongy quality of the pulp of the plants in those latitudes. Hence the difficulty of fermenting their juices distilling their essences, and preserving for use the fruit, juice or blades of southern plants; swarms of them invade and strip the leaves, bore the fruit, and lead to hlight and decomposition; and just in proportion as the fruit, and lead to hlight and decomposition; and just in proportion as the labors of man have rendered plants succulent, and their fruits and seeds sweet and pleasant, do these insects multiply on them, devour their crops, and defeat and pleasant, do these insects multiply on them, devour their crops, and defeat the objects of husbandry.

the objects of husbandry.

The labor of man is more conservative in northern climates, because his arm is better nerved for exercise, his health and spirits more buoyant; and instead of saying "Go and work," he says "Come and work;" treads with a cheerful heart upon his own soil, and assists in the cultivation, collection and preservation of his own productions: It is in temperate climate that man can be most familiar with nature; it is there that he has the best opportunities of observing the guarantees which nature has for the preservation of her animals and plants against the devastation of the clements; he sees an occasional apparent neglect of individuals, but a constant parental care of races. In every thing he sees the wisdom and benevolence of God.

APPENDIX "F."

Prof. M. F. Maury and Pacific Railroads-The Physical, Commercial and Military Necessity of two Railroads, one North and one South.

lAt a special meeting of the Chamber of Commerce of the City of Saint Paul, Minnesota, held on Saturday, January 22, 1859, at the Room of the Chamber, Col. D. A. Robertson submitted a letter of Commander M. F. Chamber, U.S. N., (Superintendent of the Observatory at Washington,) upon the subject of Pacific Railronds.

On motion of Gov. Alex. Ramsey. Col. Robertson was requested to furnish

On motion of Gov. Alex. Ramsey, Col. Robertson was requested to furnish On motion of Gov. Alex. Kansey, Col. Robertson was requested to furnish a copy of the same for publication, it being in the estimation of the Chamber the most able exposition of the subject treated upon ever written.

The request of the Chamber was compiled with as follows:

St. Pall., Jan. 21, 1859.

Dear Sir:—I venture to comply with your request in behalf of the, Saint Paul Chamber of Commerce, to furnish a copy of Commander Manry's letter of the 4th ir.t., for publication, (striking out the portion of a private nature.) In doing so, it is proper to remark that the letter was written in the course In doing so, it is proper to remark that the letter was written in the course rely upon the acquiescence of its distinguished and patriotic author. Its recountents, especially at this time, are of too much national value to be allowed to remain in the obscurity of any private hand. May 1 not say, with safety. comeans, especially at this time, are of too mace national value to be allowed to remain in the obscarity of any private hand. May 1 not say, with safety, that the scientific, geographical and commercial facts therein presented, with such transcondent ability and high authority south the schole question of that the scientific, geographical and commercial facts therein presented, with such transcendent ability and high authority, settle the whole question so long debated about routes and roads to the Pacific?

Yours truly, D. A. ROBERTSON.

WM. R. MARSHALL, Esq., President St. Paul Chamber of Commerce.

OBSERVATORY, WASHINGTON. January 4, 1859.)

I have often wished that the question, pure and simple, Railroad or no Railroad to the Pacific, could be put to the popular vote of the nation. Never, since the Memphis Convention of 1849, should I have had any doubt us to the result. The vote would be largely for the road.

While all admit the importance of one or more such railways, there has been such a diversity of onion as to routes and plans, that no one route has as

w me an admit the importance of one or more such ranways, there has been such a diversity of opinion as to routes and plans, that no one route has as yet met with friends enough to carry it through in spite of its rivals, and I do not think that it one will

Two roads at least are necessary. At least two roads—one at the North, the other at the South, are required for the common defence. At least two

roads-one at the South, the other at the north-are necessary, socially and roads—one at the South, the other at the north—are necessary, socially and commercially; for by two roads so placed, the markets of Japan, China and the Amoor, will be brought nearer to us by many days' sail than it is possible for one road to bring them. This may sound paradoxical; yet I hope, before I am done, to explain the paradox to your satisfaction.

Let us first consider the importance of two roads in their military aspect. Vancouver Island commands the shores of Washington and Oregon; and whether the termines of the Northern, road he at Paret Sound or at the

whether the terminus of the Northern road be at Puget Sound or at the month of the Columbia river, the munitions sent there could be used for no

other part of the coast, for Vancouver overlooks them

They could not, on account of Vancouver in its military aspects, he sent from the northern terminus to San Francisco and the South; nor could the Southern road—sapposing only one, and that at the South—send supplies in war from its terminus, whether at San Diego or San Francisco, by sea either to Oregon or Washington. Vancouver would prevent, for Vancouver communds their coasts as completely as England commands those of France on the Atlantic. So complete is this military curtain that you never heard of France on the Atlantic sending spaces by sea to France on the Mediterrance. France on the Atlantic scuding succor by sea to France on the Mediterranean, or the reverse in a war with England. The straits of Fuen are as close as the Straits of Gibralter.

In preparing for the national defences on the Pacific, this fact, and the lact that Vancouver Island is in the hands of a foreign power, are well calculated

that Vancouver Island is in the hands of a foreign power, are well enterinted to impress peculiar features upon any system that may be adopted.

But I promised to explain why two roads, one at the South, the other at the North, will bring the markets of Asia much nearer to us than either road. singly, would make them.

Before, however, I go into that explanation, let us clear away some of the obstacles which error has placed in the way of a northern route to the Benific.

Pacific.

Most men of our ngc were educated under the belief that parallels of atitude and terrestrial climates are correlatives; that we might tell the temperature of any unknown country or region of country, if we knew its latitude.

Humboldt and Dovo exploded this idea with their isothermal lines. For example, they show that the mean annual temperature of North Cape, lat. 70° in Barope, is the same as that along the north shore of Lake Superior, in lat. 30°. Here is a difference of 20° of lat., without any difference in the average amount temperature of the two places.

There is a difference in the length of day and night at the two places, and so far as climate is affected by difference in the length of day and night, climate is to that extent, and no farther, an affair of latitude. But with differences in length of day and night, the relations between climate and latitude

cumate is to that extent, and no farther, an affair of latitude. But with differences in length of day and night, the relations between climate and latitude
cease. The thermometer and hydrometer then become the true exponents of
climate. Every region, indeed, tells the whole story of its climate by its flora.

Let us get rid then of our old notions concerning the relations of latitude
and climate, and with unbiased minds lay out this north temperate zone,
which we inhabit, into thermal bands, and then study the flora of these bands.

After we shall have done this, then I think we will be able to garee at least

which we innabit, into thermal bands, and then study the nora of these balds. After we shall have done this, then I think we will be able to agree, at least among ourselves, as to the necessity of two routes to the Pacific. Moreover we can select those routes that will be the best agriculturally and commercially; and when we shall linish with this investigation, you will find that these two routes lie exactly where the best plan of rectional delense requires them—the Northern route commencing at the western boundary of Minnesota and going to Puget's Sound, with a branch in the course of time to the mouth of the Columbia-the Southern route compagneting at Et Passera Texas, and going thence to San Diego and San Francisco.

Commercial and South.

he City of Saint he Room of the ommander M. F.

quested to furnish n of the Chamber ritten. , Jan. 21, 1859.

schalf of the Saint inder Maury's letter of a private nature.) written in the course eation. I confidently atrictic author. Its value to be allowed not say, with safety. erein presented, with e whole question so

OBERTSON. er of Commerce. VASHINITON. muary 4, 1859. y

simple, Railroad or no ar vote of the nation.

I I have land any doubt oad.

railways, there has been hat no one route has as oite of its rivals, and I do

onds-one at the North, defence At least two

I speak of these routes as the routes which commerce and agriculture as well as war require. The elements indicate them. I place the climatology of these, the agricultural and commercial resources of the regions through of these, the agricultural and commercial resources of the regions through which they pass in the same category, because commerce is based on difference of agricultural productions, and difference of productions is an affair climate altogether. Therefore, in studying climate and routes we study arrively of production, and cannot help looking at them in their commercial

Aspects.

The Army Meteorological Observations, Blodget's Climatology of the United States, and Dove's Isothermal maps, enable us to divide that portion of the northern temperate zone occupied by the United States, into two grand

and characteristic thermal bands two bands differ. The people differ—their The fauna and the flora of these two bands differ.—and, therefore, I call climates differ—the industrial pursuits in them differ—and, therefore, I call and characteristic thermal bands. changes other—the industrial pursuits in them differ—and, therefore, I call them grand and striking subdivisions. Speaking in a general way, the United States lie between the mean annual isotherms of 35° and 70° .

Take a school map of the wor. I and let us draw with a pencil these isotherms

Take a school map of the wor. I and let us draw with a pencil these isotherms across Europe, Asia, and Africa also.

Beginning on the west coast ... iith the pencil at Sitka, draw it with a free Beginning on the west coast ... iith the pencil at Sitka, draw it with a free hand thence through the mouth of the Red River of the North, touching the north shore of Lake Superior, crossing the St. Lawrence below Quebec, and north shore of Lake Superior, crossing the St. Lawrence below Quebec, and north shore of Lake Superior, crossing the St. Lawrence below Quebec, and north shore of Lake Superior, and the Gulf of Onega; then draw through tians, draw your peucil up towards the Gulf of Onega; then draw through tians, draw your peucil up towards the mouth of the Amoor. You can now Orenberg to Kiachta, Marghan and the mouth of the Amoor. You can now see sufficiently near for our present purpose how the isotherm of 35° runs. The mean temperature of all places south of this line is not more than 35°. The mean temperature of all places south of this line is not more than 35°. In the mean temperature of all places south of this line is not more than 35°. In like manner we sketch off roughly the annual isotherm of 70° through the new world and the old. It starts from San Diego, crossing the Colorado at its mouth, and then passing down Chibashua to Austin, in Texas, it goes at its mouth, and then passing down Chibashua to Austin, in Texas, it goes by New Orleans and Pensacola to the sea. Striking the African coast near by New Orleans and Pensacola to the sea. Striking the African coast near the measure of all places to the hearth of this line is less than 70°. Now let us divide the being multided, between these two isotherms into two Now let us divide the being multided, between these two isotherms into two of 52°, the mean (nearly) between 35° and 70°. Beginning near Cape Orford on the West, Coast, this isotherm passes up towards the Dallas, then down a little to the west of Salt Lake to Santa Feithen up to Scott's Bluff, and then through St. Louis and Louisville to Baltimore. Taking op in England, it passes through Belgium towards Zurich,

then up to Scott's Biuff, and then through St. Louis and Louisville to Baltimore. Taking op in England, it passes through Belgium towards Zarich, then up towards Olmutz, and so through Varoz, Derbent, Kokan and Pekin. This line divides this belt thermally and geographically into two hands of mearly the same size. They include the garden spots of the earth. In them and laid his first hearthstone, and from them the lights of civilization and christianity have shed their first and brightest rays.

Let us, for the convenience of reference, call the Northern band the upper hand and the Sunthern one the lower.

We are now prepared to cast the eye over them, and to generalize conceruhand, and the Southern one the lower.

We are now prepared to east the eye over them, and togeneralize concerning the commercial and agricultural aspects of the two routes.

The plants which give physiognomy to the fields and forests of these bands are, for the upper band, confers, the willow, the beech, larch, fir, alder, elm, hiskory, birch, crabberries and pasture grasses. For the lower band the characteristic plants are thick leaved evergreens, and arborescent grasses, the communication plants are three rewest evergree evergree, coder, ash and magnolia, with roses.

agriculture as le climatology giona through ased on differis an affair of ites we study eir commercial

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orthern band the upper

d to generalize concerno routes.

nd forests of these bands sch, larch, fir, alder, elm, For the lower band the l arborescent grasses, the The chief commercial plants, besides the cereais—which are common to both—are for the lower band, the orange, the vine, the fig, peach, date, pomegranate, citron, the melon, St. Joha's Bread, the sweet potato, rice, indigo. tobacco, hemp, cotton, tea, sugar and naval stores. For the upper band, buckwheat, hay, Irish potatoes, turnips, apples, pears, plums, herds and starts.

flocks.

Most of the railways both in Europe and America, are in the upper band; so are the great centers of commerce, and the places for fairs in Europe and Asla—a sure sign that the occupations of the people in the upper band are not so exclusively agricultural as those of the lower. In other words we are reminded by this division that the people, in spite of legislative enactments, tariff, and protection, have obeyed the laws enacted by nature as expressed for the geographical distribution of labor, and that man, though the same in both bands, has in each heeded those physical conditions by which he finds himself surrounded, and directed his labors to those pursuits which promise the best returns. the best returns.

This circumstance reminds us that railways in the upper band should be more apt to have full freights both ways than are railways in the lower band. The latter carry away tobacco, hemp, cotton, rice, sugar, &c., and may bring back in a single car, the manufactured articles for which a whole train-load of cotton has been exchanged. Hence, as a rule, railroads in this band carry more than they fetch. The same raw and bulky articles go into the upper hand to be manufactured, and when manufactured they are put on the rails fer distribution, and for market—thus increasing freights for this band both

Each one of these thermal bands in the United States wants its roads from sea to sea, and each must have it. Each wanted its system of roads between the Atlantic to the Mississippi river, and euch has it, whether Congress would or not—and so it will be between the "Grand Ocean" and the Missis-

sippi.

Look at the steel engraved map in Putnam's Railroad Guide and you will

Look at the steel engraved map in Putnam's Railroad Guide and you will see how those systems of roads have been formed. Until last summer Virginia would stretch no railroad line from any of her fine harbors into the valley of the west. North Carolina had no harbor's, hence the blank space on that map between Ohio and Georgia.

On that map between Onto and Georgia.

On the other hand, there was the great chain of Lakes. Then there was the Baltimore and Ohio, and the Pennsylvania Central Railronds, which were commenced at a very early day, and pushed forward with vigor. Now see what a net-work of railroads these have called out, reaching to and the Mischeling, and ettertailing due not to connect with these.

Now see what a net-work of railroads these have called out, reaching to and beyond the Mississippi, and stretching due east to connect with these.

While Virginia would not and North Carolina could not, South Carolina and Georgia went to work with their system of roads, which has already stretched itself towards the setting sun far beyond the Mississippi.

Texas has given a most magnificent grant of lands and lann of money to the Southern Pacific railway, which will extend the Southern system as far as El Paso, within 600 miles of the Pacific.

Roads from New Orleans, Vicksburg, Memphis and other points, are to join the Texas road. Memphis and El Paso are in the middle of the lower band. Hence, you perceive, this band has its roads well under way, and it is band. Hence, you perceive this band has its roads well under way, and it is high time Uncle Sam should take hold and extend it westward.

Unfortnately, this road has had troubles to an extraordinary degree—but it's a long night that has no day, and it now begins for the first time to see the light of real day. The dawn is promising.

So, too, in Mirnesota: St. Paul is in the center of the upper band, and

there is a railroad already under way from St. Paul to Pembina. A branch

from this road leading to the Pacific will most fairly represent the system in the upper band. St Paul is in the middle of it, and the distance by an air the upper band. St Paul is in the middle of it, and the distance by an air the Western limits of Minnesota to Paget's Sound is 870 miles: making only (say) 1500 miles of road to be provided for by the general government, in order to secure both of these roads. Indeed, it the Southern road by the California line, California will take care of it thence to Sun taken to the California line, California will take care of it thence to Sun taken to the California line, California will take care of it thence to Sun taken to the California line, California will take care of it thence to Sun taken to the California line, California will take the care of it thence to Sun taken to the California line, California will take the care of it thence to Sun taken to the California line, California will take the care of it thence to Sun taken to the California line, California will take the care of it thence to Sun taken to the California line, California will take the care of it thence to Sun taken to the California line, California will take the care of it thence to Sun taken to the California line, California will take the care of it thence to Sun taken to the California line, California will take the care of it thence to Sun taken to the California line, California will take the care of it thence to Sun taken to the California line, California will take the care of it thence to Sun taken to the California line, California will take the care of it thence to Sun taken the california line, California will take the care of it thence to Sun taken the care of the care triken to the Camornia line, Camornia will take care of it disclosed San-Francisco. So that by providing for the construction of some 500 miles, government can now secure one at the south. Ten years ago, when this ques-tion of a road to the Pacific begun first to be agitated, government would have had to provide for it all the way from the Mississippi to the Pacilic—so it was held—and that would have required a single road about 2,000 miles long.

Now, government nid along 1,500 miles will give us two.

These bands give a complete quietus to all objections to the northern roads.

on the score of climate. In other parts of the world roads abound in just such interests. The road from St. Petersburg to Moscow, and the Prussian roads in the terms in the score of the road from St. Petersburg to Moscow, and the Prussian roads in the state of the road from St. Petersburg to Moscow, and the Prussian roads in the state of the score of the with others in the same band, in Europe, are even in a higher latitude than who others in the same band, in Europe, are even in a arguer latitude than the St. Paul road will be; yet climate is no objection to them. Neither is it to the Canada ruilways, nor to any others as far north as the rails have been laid. We all expect to see the day when Russia will be extending her system of rails into Siberia, and none of us—for in that matter all of as have many the control of the

or rans into Siberia, and none or us—for in that matter in or us have mo-binssed minds—anticipate any difficulty on the score of climate.

Rain maps for these bands show that the average annual amounts of rain along this northern route and until you pass the Rocky Mountain raafter which the climate is mild, like that of England -is less than i. after which the climate is mild, like that of England—is less than it any railway in the Atlantic States, or in the Mississippi valley, or, indeed, in any part of the World. They show that the average amount of precipitation both snow and rain, io winter, for that part of the route which lies between the Pacific range of mountains and St. Paul, is less than three inclus!

Thus I think the question of climate of tarvific arous storms and impaces.

Thus, I think, the question of climate of terrific snow storms and impassa-

be drifts along this route, may be considered as disposed of.

We return now to the puredox, that by these two roads to the Pacific, the markets of Asia will be much nearer to those of the Mississippi valley than either road alone could bring them. To explain this it is only necessary to remind you how the winds blow and the currents set that control the routes of ending possels—the hunder cars of the sea, between the control the routes. ble drifts along this route, may be considered as disposed of. of sailing ressels—the burden cars of the sea—between the eastern shores of

The route to Asia lies through the N. E. trade winds. These winds blow between the parallel of 30 deg., N., and the Equator; and vessels that take this route usually run across the broad Pacific between the parallel of 18 deg. and 25 deg. N. where the trades are strongest. Returning, they take the great circle route—the shortest distance—and keep well up to the north; for now the "brave west winds" of those extra-tropical regions which would have been adverse for the outward voyage, are fresh and fair for the homeward run. So you perceive that a vessel trading under canvass between our Pacific States and China describes on every round voyage, an edipse; coming out of the state of Pace act in Columbia and to the state of Pace act in Columbia and to the state of Pace act in Columbia and to the state of Pace act in Columbia and to the state of Pace act in Columbia and to the state of Pace act in Columbia and to the state of Pace act in Columbia and to the state of Pace act in Columbia and the state of Pace act in Columbia and the state of th Straits of Fuca or the Commbia river for instance, her course is first to the southward, as though she were hound round Cape Horn, and until she gets into the N. E. trade winds. Her course is then west until she enters the waters of the China seas. She then hands up to the northward and westward for her port. On her return voyage, her course on coming out of her Asiatic port, is to the northward and castward, until she gets fairly within the "brave With these she steers to the castward, fullowing the great circle route gradually shaping her course to the S. of E. until she reaches our own If she be bound to San Francisco, her route, Latil she gains the oflings of

nt the system in tance by an air. general govern-outhern road by it thence to San some 500 miles. o, when this quesmeut would have he Pacific—so it 2,000 miles long.

he northern rouds. bound in just such the Prussian roads ther latitude than iem. Neither is it the rails have been ctending her system all of as have unmate.

ual amounted rain Mountain ra less thun i.

valley, or, indeed, in ount of precipitation e which lies between three inches! storms and impassa-

roads to the Pacific.

lississippi valley than t is only necessary to nat control the routes the eastern shores of

ls. These winds blow and vessels that take the parallel of 18 deg. curning, they take the ions which would Lave r for the homeward run. ween our Pacific States se; coming out of the her course is first to the Iorn, and until she gets st until she enters the orthward and westward oming out of her Asiatic s fairly within the "brave following the great circle until she reaches our own

il she gains the oflings of

the straits of Fueu, would be the same as though she were bound into Puget's

Thus you perceive that, on the outward voyage, San Francisco is on the way side from Puget's Sound and Columbia river to China; whereas, Puget's Sound and Astoria are on the way-side of the route from China and Japan to

To see how one road only would work, let us suppose it at the north—run-ning from St. Paul to Puget's Sound. Let us now follow a package of merch-position of glovery that is not the road from Manufacture. and from St. Paul to Puget's Sound. Let us now follow a package of merchandize—say of ginseng—that is sent over this road from Memphis to be bartered in China for tea. The ginseng would first go north up the Mississippi to get to the road. Thence it would cross to the Pacific; arriving at Puget's Sound it would then be shipped for China. Now it must come back to the south again to get into the trade wind region. Thus you observe it would have to go more than a thousand miles up the Mississippi out of the way; and when it reaches the Pacific it would have to return nomin as far to the and when it reaches the Pacific it would have to return again as far to the South. Being exchanged for tea in China, it would be nearest for the tea to stop at Puget's Sound, take the Railroad and come south on the Mississippi.

instead of coming South by sea along the Pacific coast.

Now let us, in imagination, place the road at the south instead of the north. Now let us, in imagination, place the road at the sourh instead of the horizontal take a bale of furs to illustrate the roate of trade and travel. The fur, we will suppose, is sent from St. Paul. It comes down the Mississippi to get to the road. That would not be out of the way for the fur, for it is bound south for the northeast trade winds at any rate; and it would be, in a national solid of view postupe were desirable to have it to south by the Mississippi point of view, perhaps more desirable to have it go south by the Mississippi than by sea in the Pacific. But when the silk for which it has been exchanged in China, on St. Paul account, arrives, on its return off the entrance of the Streit of Faga, it has to have contact of the street of Faga, it has to have contact of the street of Faga, it has to have contact of the street of Faga, it has to have contact of the street of fagine as the street of fagine as the street of the street of fagine as the street of the street of fagine as the street of the s Straits of Fuca, it has to turn out of its way. Instead of finding railway transportation to take it through from Puget's Sound ucross to Minucsota, it has to run away to the south. Perhaps a week after it might have been in St. Paul by a northern road, it arrives by scain California, and is carried by rails to Menublis. Now it has to double transpirated. rails to Memphis. Now it has to double upon itself is go north, and recross every parallel of latitude that it crossed after turning out of its way from Juni

This doubling will require two or three weeks of time, besides risk and

expense.
With two roads there will be no doubling, hence two roads will bring China With two roads there will be no doubling, hence two roads will bring China Chi and Japan and Russia very much nearer to the Mississippi valley than one can do. The distance saved will be, in furlougs, nearly twice the length of the

Mississippi river, and in time some two or three weeks.

Whether the government therefore aids in the building of these roads or not, these circumstances will of themselves call for the construction of at least two roads to the Pacific—one at the north, the other at the south. Northern capital and Southern capital will assist in both.

I have thus endeavored to make clear the paradux with which I set out.

and I hope I have succeed. I showing to your satisfaction that at least two railways—one at the north the other at the south—are required to the Pacific.

There are no toll-houses in the lakes, and none on the Gulf of Mexico. The

tr the engued, in favor of these two routes.

The marest way from Brazil and the Amazon, as well as from the West Indias to China, would then be by the South Pacific Railway.

Yours truly, M. F. MAURY.

D. A. Robertson, St. Paul, Minnesota.

APPENDIX "G."

British Columbia.

From the Correspondence of the London Times, VICTORIA, VANCOUVER'S ISLAND, December 9, 1859.

Ail recent accounts from British Columbia have been of most satisfac-

tory and encouraging character.
Its wealth, and the vast extent of its anrilerous area, are now established by undeniable evidence; the satisfaction of the miners with their success, and the unuenable evidence; the saussaction of the miners with their success, and the arrival here of large quantities of gold dust, the discoveries ("new "placers," and the extension of old diggings in which gold is found deeper and further inland from the rivers than was nt first expected, all go to establish these two important facts.

Rich diggings have been discovered in ithe Similkameen valley, a short distance north of the 49th parallel within the territory of British Columbia. The valley of the Similkameen (pronounced "Sheemilkeemeen,") which is The valley of the Similkameen (pronounced "Sheemilkeemeen,") which is watered by a river bearing the same name, is extensive, fertile, abounds in rich pasture, and is well adapted for settlement. The climate is genial and rich pasture, and is well adapted for settlement. The climate is genial and rich pasture, and is well adapted for settlement. The climate is genial and there are many extensive tracts in the Similkameen country especially favor, there are many extensive tracts in the Similkameen country especially favor, which for stock rasing, as in winter the snow never lies, however deep it may note in the mountainous country around. The river is a tributary of the Okinbe land, which for some for the Golumbia near 48 ° north latitude. This new mining agan, which falls into the Columbia near 48 ° north latitude. This new mining agan, which falls into the Columbia near 48 ° north latitude. This new mining agan, which produced the usual "excitement." Gold has also been discovered and worked to a considerable extent on Queensell's river and Lake some red and worked to a considerable extent on Queensell's river and Lake some 250 miles to the north of the last mentioned locality. In short the whole of the laster or portions of the country, from a point about 45 miles from (above) the laster or portions of the country, from a point about 45 miles from (above) the laster or portions of the country, from a point about 45 miles from (above) the laster or portions of the country, from a point about 45 miles from (above) the laster or portions of the country, from a point about 45 miles from (above) the laster or portions of the country, from a point about 45 miles from (above) the laster or portions of the country, from a point about 45 miles from (above) the laster or portions of the country, from a po been at the same ting discovered.

QUEEN CHARLOTTE'S ISLAND.

The problem whether the gold area extended as far north as the northern boundary of British Columbia to the Russian line has also been solved.—boundary of British Columbia to the Russian line has also been solved.—Captain Torrens, late of Her Majesty's 55th Regiment—a gentleman who combines a life of adventure with a high spirit of enterprise—organized an expedition, including solentific men, some months back, to explore Queen expedition, including solentific men, some months back, to explore Queen Charlotte's Island and the north-west coast of British Columbia. They first Charlotte's Island and the north-west coast of British Columbia. They first made for Fort Simpson, the Hudson's Bay Company's northernmost establishment on the Pacific, situate in latitude 54 deg. 20 sec., near the Russian boundary.

boundary.

From Fort Simpson they crossed to Queen Charlotte's Island (a dependency of the Colony [of British Columbia.) and landed on Point Rose, an

er's Island, ler 9, 1859. of most satisfac-

now established by eir success, and the s c" new "placers," deeper and further to establish these

een valley, a short British Columbia. keemeen,') which is limate is genial and try especially favornowever deep it may ribntary of the Okinade. This new mining and from the neighinhabitants of which lag last autumn with has also been discovriver and Lake some In short the whole of 45 miles from (above) cky Mountains inclu riferous; and, what is d for agriculture have

north as the northern as also been solved. ent—a gentieman who terprise—organized an ack, to explore Queen Oolumbia. They first y's northernmost establece, near the Russian

otte's Island (a depend-oded on Point Rose, an

isthmus which forms the north-eastern extremety of the island. Captain Torrens has kindly furnished me with notes from his journal and from them I will extract a succinct account of his wanderings. From Point Rose the party coasted southward, "prospecting" as they went. The "color," as the miner calls a successful trial for gold, was found always everywhere on the coast in the concrete, and in the different strata of gravel in the cliffs; but the best "prospects" were derived from the black sand on the beach from Point Rose to Skidgerte, a distance of some sixts odd miles on the south coast. to Skidegate, a distance of some sixty odd miles on the south coast. Capt. Torrens thinks the discovery of gold in black sand (iron pyrites.) on the sea coast a remarkable fact. Gold in considerable quantities is found similarly situate on the north coast of California, at a place called, Gold Bluff, where miners have been at work extracting it from the "black sand," by machinery and the use of quicksilver, for the last nine years. At Skidegate village the Indians behaved in so hostile a manner that the party went back in their cances to Fort Simpson. Smitten by qualms of conscience at their inhospitality, or more probably, having a dread of Governor Douglass' vengeance, ashe had sent a message beseeching kind treatment for the party, the Indians. to make amends, sent a deputation to Fort Simpson to invite Captain Torrens to repeat his visit under a promise of safe conduct from the chiefs of the "Haidhas," the most powerful tribe on the island. Thus encouraged the Captain and his men started again. En route they visited Pitt Island which lies on the east side of Queen Charlotte's Island, between it and the mainland.— Here they found specimens of gold-hearing quartz. They then made for Gold Harbor, on the east side of Queen Charlotte's Island, where a consederable quantity of gold was blasted in 1852, under the auspices of the Hudson's Bay Company, and sent to London—a fact which added to the exhibition of golden nuggets by Indians frequenting Victoria, had raised high hopes among the more speculative of our townsmen that great wealth lay here.

Captain Torrens was disappointed if he entertained any such hopes. He found the gold "leads" worked out. At least, he and his party thought, and they left again for the mainland. On their way back they visited an island 25 miles to the north of the Queen Charlotte groupe, which they found to be very rich in copper ore. They visited also Kagahni and Tongass islands, a little beyond the parallel of the British Possessions, and Chatsina, on the main Russian Territory. These localities they found to contain lead, hismuth, plumbago, and quartz rich in sulphurets, which analyze from \$135 to \$200 per ton, in great abundance.

to \$200 per ton, in great abundance.

Captain Torrens describes the character of the north-west coast of British Columbia as "highly mountainous, one long continued formation of slate interpersed with frequent veins of chrystalized quartz."

THE MAINLAND.

The Captain having determined to examine the interior of the mainland of British Columbia in this northern portion of it he ascended the Naas river, which empties into the Pacific about forty miles north of Fort Simpson. Nothing remarkable struck his notice until he and his men had got up the river for forty miles. Here they observed evidence of volcanic action at some remote period in the discolored and blistered appearence of the rocks; and here they commenced "prospecting," which they continued for a distance of 100 miles, being the extreme distance they proceeded to and throughout which they found the bars in the river to be auriferous. The trip being essentially a "prospecting trip," they did not settle down the general operations of a mining camp, remaining only a day above and day there as circumstan. of a mining camp, remaining only a day here and a day there as circumstances permitted. The river being full, the bars' were but little exposed.— Good diggings, were however, discovered, and the whole party were sanguine

that a new gold-field will be opened up in this remote part of the world next spring, when Captain Torrens returns to his exploration of Nans river and

spring, were Captain 1 orrest returns to all experienced. It is not adapted for steamers, being too rapid. The seenery is very hold and picturesque.—
The weather in autumn was beatiful. Of the soil the Captain says: "—Mag infect placeaus of land are now to be found where once flowed torrents of the soil bank come also at intervals the vegetation upon which is inxuificent plateaus of land are now to be found where once flowed torrents of water; open lends occur also at intervals, the vegetation upon which is luximizer; In addition to the discovery of gold and of good land on the Nasa river. Captain Torrens was informed that the Indian trails were so good as to be available for pack trains with little trouble"—a fact which is of the first importance tolfacilitiate the transit of goods by a short route from the cenat into New Caledonia, where gold is now being worked, which is known to be highly surferous; and where from the amenity of the climate in winter, and the abundance of pasture a large mining population would settle were it not for the difficulty and great expense of transit by way of Frazer river.

Captain Torrens is loud in his praise of the humanity, kindness, and liber.

Captain Torrees is loud in his praise of the humanity, kindness, and liber-Captain Torrees is loud in his praise of the humanity, kindness, and liber-captain Torrees is loud in his praise of the humanity is party received introduced in the party received introduced in the party received in the party recei important assistance.

ANOTHER EXPLORER.

Another explorer has just returned from the same part of the world-whose report has added to our meagrein formation of the topography of the northern and western portions of the new colony, and to which the Governor attaches considerable importance.

Mr. Downio, an old California pioneer, where, although a Scotchman and course a foreigner, he was like the promoted that heavet wask of a Major."

of course a foreigner, he was lib August, on a tour of exploration into started also from Fort Simp the interior by the Skeena riv b falls into a bay inlet at Port Essington, and savages, the Major's trip was an eventful and romantic one, and he has made a tremendons story of it himself in shape of a report to the Governor; but I must limit myself to a short abstract, which will embrace the main points. The bay at Port Essington runs inland, and is deep and navigable for thirty miles. The rocks are gionntic, no quartz appearing. The banks of the

ty miles. The rocks are gignatic, no quartz appearing. "The banks of the Skeena are low, with small hardwood and cotton trees (poplar,) and some good sized white oaks, the finest I have seen west of Frazer river, on its margin.

Vesselddrawing four feet can ascend the river for tweety with the last tweety for the last tweety good sized white oaks, the mest i have seen west of Frizer river, on its margin. Vesselsdrawing four feet can ascend the river for twenty miles, but no further;" the rest of the navigation must be accomplished by canoes. no further;" the rest of the navigation must be accomplished by cances.—Near the embouchure of the Skeena the poor Major first came to grief. Some "honest." Indians stole his coat, but he was consoled for the loss by finding "some chrystalized quartz with gold in it, with an Indian on the Seenetoys in some chrystalized quartz with gold in it, with an Indian on the Seenetoys in grantz will be found here." Padding along for about 100 miles, the working quartz will be found here." Padding along for about 100 miles, the working quartz will be found here." Padding along for about 100 miles, the working of the coast ranges of mountains," through which the Skeena flows. Once over the usage he found "gold, a few specks to the pan; and the whole country looks like a gold country, with fine bars and flats, and clay on the bars." Bars and flats and clay on them are considered gold locations.—

"The mountains look red, and slate and quartz can be seen." A slate formation indicates the neighborhood of gold. The Major is skillful in judging by the ton indicates the neighborhood of gold. The Major is skillful in judging by California, after some days journey beyond the coast range, keeping a north-California, after some days journey beyond the coast range, keeping a north-casterly direction the Major got intelligence of what he calls the "Plambago easterly direction the Major got intelligence of what he calls the "Plambago" world next

not adapted which is luxon the Naas so good as to om the coast known to he in winter, and tle were it not river. ess, and liberparty received

of the worldography of the

Scotchman and nk of " Major," exploration into at Port Essinghips, starvation. he languages of and he has made Governor; but the main points. avigable for thir-The banks of the oplar,) and some azer river, on its twenty miles, but ed by canoes .-ne to gricf. Some ne loss by finding on the Scenetoys "that good pay-00 miles, the work ecount, "got fair-Skeens flows. in; and the whole s, and clay on the gold locations.

A slate formaliful in judging by nd quartz leads in keeping a north-ls the "Plumbago

"From here to the village Mountain;" of this mineral he got a speciman. of Kitcoonsa the land improves, the mountains recede from the river, and fine flats run away four or five miles back to the "mountain sides." The milder natural scenery would seem to have improved the manners and tempered thei dispositions of the Indians inhabiting the valley of Kitkoonsa.—They were very kind to the Major and wished him to live with them.

THE CASCADE COUNTRY.

In a district which I take to lie between two ranges of the Cascade Mountains, about 200 miles northward and eastward of Fort Simpson, he found "the prospects" or gold to vary much, but on the whole concludes that it is the best looking mineral country he had seen in British Columbia. On crossing the second range of the Cascade Mountains, the Major "enters an extensive coal country, the seams varying in thickness from 3 to 35 feet"—a fact which he was able to ascertain from the river having cut through them. He traced the veins for a mile in length. It took him twenty days from Fort Simpson to this coal district, but by good travelling arrangements, it could be done in a week. I must now take a tremendous jump with the Major to Babine Lake near the northern boundary of British Columbia. This lake is deep and and broad, and 100 miles long—facts which are corroborated by some of the gentlemen of the Hudson's Bay Company, and who add that the Great Eastern could float upon it. The Major reports that this lake is the source of Skeenn river, and he corrects the mistaken and long-received opinion that it is the source of Simpson's River, as laid down in the maps. To compress the the source of Simpson's River, as laid down in the maps. To compress the Major's most original, but confused descriptions, I would say that for about 100 miles to the southward and westward of and up to Babine Lake, the country is well adapted to settlement. "The land is first-rate and wild hay and long grass abound. No heavy pine timber but pleaty of cotton-wood, of which the causes are made;" abundance of salmon and wild berries, and the weather in September pleasant. The winters, however, must be very severe. From Nass-Glee to Fort Kilmaurs—a Hudson's Bay Company's station at Babine Lake—the distance is about 50 miles, and "the laad is good the whole way." The Major was enchanted with this part of the country. He calls Kilmaurs a lovely place, and moralizes a bit in the followcountry. He calls kilmaurs a lovely place, and moralizes a bit in the following strain:—"It seems a great pity to see this beautiful land, so well adapted to the wants of man, lying waste, when so many Englishmen and Scotsmen would be glad to come here and till the soil." If gold is found to abound, one would think the country could be more readily peopled by Canadians than by Scots or English. From Babine Lake the Major made a portage of ten miles to Stuart's Lake, "over a good trail," made by the Hudson's Bay Company. Arrived at Stuart's Lake the Major and his party were put to great shifts being without food, without ammunition to shoot dueks with, and without a canoe to cross the lake in. "We camped here three nights without food, sleeping the greater part of the time to stifle our hunger; 'their only consolution being "the grand idea of their enterprise in exploring a new route from steeping the greater part of the time to stine our ninger; their only consolation being "the grand idea of their enterprise in exploring a new route from the Pacific, which will one day connect the ocean with the Atlantic." With the aid of Indians who treated them with the greatest kindness, they made the passage of Stuart's Lake on a raft of logs, and at length made Fort St. James, another Company's establishment at the south-east end of Stuart's Lake, in the district of New Caledonia. True to his instinct and to his mission, the indefstigable Major, having been driven on a less shore on Strant's Lake, it the district of New Caledonia. True to his instinct and to his mission, the indefatigable Major, having been driven on a lee shore on Start's Lake, at a point some fifteen miles from the north end of the Lake, tried his hand at "washing," and "obtained a small prospect of gold." "On the north side of the lake the ground is rocky, but south of the lake the land is as good as can be, and will produce anything."

For one who has only seen the country bordering on the coast of British

Columbia, and that through which Frazer rive, runs, which is mountainous,

Columbia, and that through which Frazer rive, runs, which is mountainous, broken and rugged to a degree, it is difficult to imagine so level and so productive a country as the interior is throughout a great portion of its extent. The Cascade Mountains are passed, and the soil and climate change for the better, while the scenery becomes softer and more subdued.

I must wind up the Major's story, which I have already made longer than I intended. After paying a tribute of praise to the agent in charge of Fort St. James, who received them "with that kindness and hospitality I have always found at the Companys' posts," he winds up his narrative with a short table of distances:—"Staarts Lake is fifty miles long; Babine Lake is 100 miles long to Nass-Glee, course about S. E. and N. W.; from Nass-tilee to Fort Simpson, 250 miles." From Fort St. James the Major ran down a feeder of Frazer's river, called Stuart's river, some 50 miles to Fort George. feeder of Frazer's river, called Stuart's river, some 50 miles to Fort George. Here he took the main stream of Frazer's river, down to Fort Alexander, on the sonthern confines of New Caledonia, where he found a community of miners in constant and regular communication with the lower country, and whence he had no difficulty in getting to Victoria by the ordinary route of

NEW ROUTE TO THE MINES.

Imperient as the poor Major's exploration has been, it establishes the fact that gold exists from the coast to near the northern and eastern boundary of the colony, well night to the Rocky Mountains, in portions of the country never before "prospected;" but far more important is the fact which he asserts, that easy means of transport of merchandize exist by the route he traveled, which will be much shorter from Port Essington to New Caledonia, then the present words by Prospect given while the difficulties was for less than the present route by Frazer's river; while the difficulties are far less, and the carriage will be much cheaper, even adding the freight coastwise from Victoria to Port Essington.

from Victoria to Port Essington.

I confess I feel rather astonished, if the Major is correct, that these indefatigable pathfinders, the Hudson's Bay Company's officers, did not discover this northern and easier route, for they took great pains to find a better one than the old route by Frazer's river, &c., which is so bad that frequently 50 and 60 horses perish from fatigue and hunger on the journey. It is true that till lately the Fort Simpson Indians were very fierce and intractable, and it might have been imprudent to transport much property through their neighborhood.

borhood.

PRODUCTIVENESS OF THE MINES.

It is impossible to give an estimate of the production of gold in British Columbia. All accounts agree that the individual earnings of the miners are much larger than in California or Australia. It is very common to light upon a man going to San Francisco with several thousand dollars, upon others with one thousand dollars each, and upon many with some hundreds; but besides these exceptional cases which come to light it is all guess work. The amount "manifested" as exported in the last three months was \$451.366, which is a good amount for so small a number of miners as have been at work within that period; but I should think an amount equal to the sun just stated must have been taken by private hands. Assuming for example

at work within that period; but I should think an amount equal to the sum just stated must have been taken by private hands. Assuming for example that 1,000 miners have left the mines with \$500 a piece, a low estimate, this would make \$500,000 taken away in the last quarter, besides the \$451,866 manifested. I doubt, besides, that the amounts shipped on freight are all viscos.

The expert of gold is not the only test of the productiveness of the mines. To the success of the mining interest I attribute the growing prosperity of Victoria—the building of houses, stores and shops by the merchants, traders

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ter, bosides the \$451,866 ipped on freight are all ductiveness of the mines. he growing prosperity of by the merchants, traders and shopkeepers, and by other inhabitants. To the same cause I attribute the demand for improvements in real property which has lately taken place. Much of the gold produced remains here and goes to pay for local improvements. When I see men who came to Victoria eighteen months ago poor, growing rich, ceasing to borrow money, and building houses and shops, I can have no doubt as to the source of their improved means. Another most important "sign of the times," and a most gratifying one, is the growth of confidence in the permanent progress of the place and in the future productiveness of the mines. When cautious and prudent men, after long observation and due reflection, begin to make permanent investments in real property, there need be no fears entertained of the future. My own conviction is that the day of the retrogression of both colonies is past. Their progress is slow or it may be rapid, but progress they must.

APPENDIX "H."

Pacific Ocean Telegraph between Northern Asia and America.

The following paragraphs are from an article in the Atlantic Monthly, for March 1860, upon the "Progress of the Electric Telegraph."

"A late European steamer brings a report that two Russian engineers have proceeded to Pekin, China, to make preparations for a telgraphic connection between that place and the Russian territory.

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"There is reason to believe that arrangements will soon be made at St. Petersburg, through private companies and government subsidies, for completing the line of telegraph from Novogorod to the mouth of the Amoor, and thencetacross the straits to Russian America. In the meantime a company has already been formed and incorporated in Canada, under the name of the Transmundane Telegraphic Company, which will afford important aid in continuing the proposed line through British America. The plan is, to carry the wire from the mouth of the Amoor across Behring's Strait, to and through Russian and British America. From Victoria, a branch will be extended to San Francisco, and another to Canada. The line from San Francisco to Missouri is under way, and Mr. Collins, who is engaged in the Russian and Canadian enterprise, thinks that by the time it is in operation he shall have his line to San Francisco.

snan nave as one to San Francisco.

"This is unquestionably the most feasible route for telegraph communication, between America and Europe; and, though the longest by several thousand miles, it would afford the most rapid means of communication owing, the property of sorial over subacueous lines."

to the great superiority of aerial over subaqueous lines."

To a similar effect is an item of European intelligence, in the New York

Herota, of Feb. 20, 1860:

"An overland route for telegraphic communication with America has been proposed in France, making use of the existing lines from London to Dresden, and from thence entering the Russian empire, and passing through Moscow and Kassan. Then crossing the Ural Mountains to Yakoutsk and on to the Behring Strait, crossing this and passing through Russian America to Canada and the United States."

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